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SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: BENNETT CELSA Examiner #: 73815 Date: 9/23/03
Art Unit: 1639 Phone Number 305-7556 Serial Number: 091848, 798
Mail Box and Bldg/Room Location: CM1 3B01 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Rh(D)- binding proteins —

Inventors (please provide full names): DONALD L. SIEGEL

Earliest Priority Filing Date: 5/27/97

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

PLEASE SEARCH

- 1) SEQ ID ^{NA} 97-393 (cDNA)
- 2) SEQ ID ^{AA} 28-131 (protein; anti-Rh(D) chain E03)

IN
ALL RELEVANT DATABASES
— provide at least 20 hits which
"comprise" these sequences.

thanks

EXCEL ST

see attached BIB + claims (11-13, 22-37)

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Online Time: <u>12</u>	Other _____	Other (specify) _____

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PT New isolated protein, preferably a human anti-Rh(D) antibody for use in
PT diagnostics requiring a human instead of an animal antibody and in
PT therapeutic medicine -

PS Claim 1; Column 43; 162pp; English.

CC The present invention describes an isolated Rh(D) binding protein,
CC preferably a human antibody, (1) having an amino acid sequence comprising
CC one of the sequences (S) given in AAG93558 to AAG93669. (1) has
CC immunostimulant activity, and can be used as an immune system stimulant.
CC (1) can be used in diagnostic and therapeutic medicine. The antibodies
CC are used in diagnostics that require human antibodies instead of animal
CC antibodies, such as determine the Rh phenotype of human red blood cells.
CC AAH68615 to AAH68726 represent the nucleotide sequence which encode
CC AAG93558 to AAG93669. AAG93670 to AAG93697 represent anti-Rh(D) heavy
CC chain CDR3 amino acid sequences which are given in the exemplification
CC of the present invention.

SO Sequence 131 AA:

Query Match 100.0%; Score 689; DB 22; Length 131;
Best Local Similarity 100.0%; Pred. No. 9, 1e-55;
Matches 131; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 EVOLLESYVESGGGLYKPGGSLRLSCAASGFTFSYSMHWYRQPGKGLWVSSISNSNT 60
DB 1 EVOLLESYVESGGGLYKPGGSLRLSCAASGFTFSYSMHWYRQPGKGLWVSSISNSNT 60
QY 61 YIYYADAVKGRFTISRDNKNSLYLQNNSLRAEHTAVYYCARDSTRYSNFLRWVRSDGMV 120
DB 61 YIYYADAVKGRFTISRDNKNSLYLQNNSLRAEHTAVYYCARDSTRYSNFLRWVRSDGMV 120
QY 121 WGQGTIVIVSS 131
DB 121 WGQGTIVIVSS 131

RESULT 2
AAG93584

ID AAG93584 standard; Protein; 127 AA.

AC AAG93584;

DE 14-SEP-2001 (first entry)

XX Human anti-Rh(D) chain E01s protein sequence.

KW Human: anti-Rh(D) antibody; Rh(D) binding protein; immunostimulant;

KW red blood cell; Rh phenotype; diagnosis; therapeutic.

XX Homo sapiens.

OS Homo sapiens.

PN US625455-B1.

PD 03-JUL-2001.

PF 29-JAN-1999; 99US-0240274.

PR 11-OCT-1996; 96US-0028550.

PR 10-APR-1998; 98US-0081380.

PR 27-JUN-1997; 97US-0884045.

PA (UYPE-) UNIV PENNSYLVANIA.

PI Siegel DL;

DR WPI; 2001-388931/41.

DR N-PSDB; AAH68641.

XX New isolated protein, preferably a human anti-Rh(D) antibody for use in
PT diagnostics requiring a human instead of an animal antibody and in
PT therapeutic medicine -

PS Claim 1; Column 43; 162pp; English.

CC The present invention describes an isolated Rh(D) binding protein,
CC preferably a human antibody, (1) having an amino acid sequence comprising
CC one of the sequences (S) given in AAG93558 to AAG93669. (1) has
CC immunostimulant activity, and can be used as an immune system stimulant.
CC (1) can be used in diagnostic and therapeutic medicine. The antibodies
CC are used in diagnostics that require human antibodies instead of animal
CC antibodies, such as determine the Rh phenotype of human red blood cells.
CC AAH68615 to AAH68726 represent the nucleotide sequence which encode
CC AAG93558 to AAG93669. AAG93670 to AAG93697 represent anti-Rh(D) heavy
CC chain CDR3 amino acid sequences which are given in the exemplification
CC of the present invention.

SO Sequence 127 AA:

Query Match 93.3%; Score 643; DB 22; Length 127;
Best Local Similarity 95.4%; Pred. No. 1, 3e-50;
Matches 125; Conservative 0; Mismatches 2; Indels 4; Gaps 1;

QY 1 EVOLLESYVESGGGLYKPGGSLRLSCAASGFTFSYSMHWYRQPGKGLWVSSISNSNT 60
DB 1 EVOLL-----ESGGGLYKPGGSLRLSCAASGFTFSYSMHWYRQPGKGLWVSSISNSNT 56
QY 61 YIYYADAVKGRFTISRDNKNSLYLQNNSLRAEHTAVYYCARDSTRYSNFLRWVRSDGMV 120
DB 57 YIYYADAVKGRFTISRDNKNSLYLQNNSLRAEHTAVYYCARDSTRYSNFLRWVRSDGMV 116
QY 121 WGQGTIVIVSS 131
DB 117 WGQGTIVIVSS 127

RESULT 3
ABP45307

ID ABP45307 standard; Protein; 256 AA.

AC ABP45307;

DE 19-AUG-2002 (first entry)

XX Human Blys binding scFv SEQ ID 1318.

KW Blys; B lymphocyte stimulator; TNF superfamily; human; cytostatic;

KW tumour necrosis factor; B cell proliferation; B cell differentiation;

KW immunosuppressive; immunostimulant; immunomodulatory; antineumatic;

KW antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;

KW systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;

XX common variable immunodeficiency; acquired immunodeficiency syndrome.

OS Homo sapiens.

PN WO200202641-A1.

PD 10-JAN-2002.

PF 15-JUN-2001; 2001WO-US19110.

PR 16-JUN-2000; 2000US-212210P.

PR 17-OCT-2000; 2000US-240816P.

PR 16-MAR-2001; 2001US-276248P.

PR 21-MAR-2001; 2001US-277379P.

PR 25-MAY-2001; 2001US-293499P.

PA (HUMA-) HUMAN GENOME SCI INC.

PA (CAMP-) CAMBRIDGE ANTIBODY TECHNOLOGY.

PI Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;

WPI; 2002-114799/75.
PT Antibodies against B lymphocyte stimulating polypeptides, useful for
PT the diagnosis and treatment of cancers and immune disorders -

XX PS Claim 1; Page 1975-1976; 3148bp; English.
 XX CC This invention describes novel antibodies that immunospecifically bind to
 XX CC B lymphocyte stimulator (Blys) polypeptides. Blys is a member of the
 XX CC tumor necrosis factor (TNF) super family and induces B cell
 XX CC proliferation and differentiation. The antibodies of the invention have
 XX CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
 XX CC antirheumatic and antiAIDS activity and can be used in vaccines to
 XX CC inhibit the expression and activity of Blys. The antibodies bind to Blys
 XX CC and so may be used to detect and quantitate the presence of Blys in
 XX CC biological samples and may be used in this way to diagnose disease
 XX CC associated with aberrant expression of Blys. They may also be
 XX CC administered to treat diseases associated with aberrant Blys expression
 XX CC and activity such as cancer, immune, and autoimmune disorders and
 XX CC diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
 XX CC immunodeficiency (e.g. common variable immunodeficiency (CVID) and
 XX CC acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
 XX CC the antibodies and fragments of the antibodies described in the method
 XX CC of the invention.
 XX SQ Sequence 256 AA;
 Query Match 74.2%; Score 511.5; DB 23; Length 256;
 Best Local Similarity 78.2%; Pred. No. 2.1e-38;
 Matches 104; Conservative 11; Mismatches 11; Indels 7; Gaps 3;
 OY 1 EVQLLESGVESGCGLVKPGGSLRLSCAASGFFSSYSMHWVRQGGKLEWSSISNSNT 60
 DB 1 EVQL---VQSGGGLVKPGGSLRLSCAASGFFSSYSMHWVRQAGKLEWSSISNS 56
 OY 61 YYYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARD-SRYSNFLRWVRS-D-G 117
 DB 57 YYYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARDLGSFDITLALALENYG 116
 OY 118 MDVWGQGTIVYVS 130
 DB 117 MDVWGKGTIVTVVS 129
 RESULT 4
 ABP44902 ID ABP44902 standard; Protein; 248 AA.
 AC ABP44902;
 XX 19-AUG-2002 (first entry)
 DE Human Blys binding scfv SEQ ID 913.
 XX Blys: B lymphocyte stimulator; TNF superfamily; human; cytosstatic;
 XX tumor necrosis factor; B cell proliferation; B cell differentiation;
 XX immunosuppressive; immunostimulant; immunomodulatory; antirheumatic;
 XX antiAIDS; vaccine; cancer; autoimmune disorder; immunodeficiency;
 XX systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
 XX common variable immunodeficiency; acquired immunodeficiency syndrome.
 OS Homo sapiens.
 XX WO200202641-A1.
 PN 10-JAN-2002.
 PD 15-JUN-2001; 2001WO-US19110.
 PF 16-JUN-2000; 2000US-212210P.
 PR 17-OCT-2000; 2000US-240816P.
 PR 16-MAR-2001; 2001US-276248P.
 PR 21-MAR-2001; 2001US-277379P.
 PR 25-MAY-2001; 2001US-293499P.
 XX (HUMA-) HUMAN GENOME SCT INC.
 PA (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.

XX PI Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
 XX DR WPI; 2002-114799/15.
 XX PT Antibodies against B lymphocyte stimulating polypeptides, useful for
 XX PT the diagnosis and treatment of cancers and immune disorders -
 XX PS Claim 1; Page 1491-1492; 3148bp; English.
 XX CC This invention describes novel antibodies that immunospecifically bind to
 XX CC B lymphocyte stimulator (Blys) polypeptides. Blys is a member of the
 XX CC tumor necrosis factor (TNF) super family and induces B cell
 XX CC proliferation and differentiation. The antibodies of the invention have
 XX CC cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
 XX CC antirheumatic and antiAIDS activity and can be used in vaccines to
 XX CC inhibit the expression and activity of Blys. The antibodies bind to Blys
 XX CC and so may be used to detect and quantitate the presence of Blys in
 XX CC biological samples and may be used in this way to diagnose disease
 XX CC associated with aberrant expression of Blys. They may also be
 XX CC administered to treat diseases associated with aberrant Blys expression
 XX CC and activity such as cancer, immune, and autoimmune disorders and
 XX CC diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
 XX CC immunodeficiency (e.g. common variable immunodeficiency (CVID) and
 XX CC acquired immunodeficiency syndrome (AIDS)). ABP43990-ABP47228 represent
 XX CC the antibodies and fragments of the antibodies described in the method
 XX CC of the invention.
 XX SQ Sequence 248 AA;
 Query Match 73.9%; Score 509; DB 23; Length 248;
 Best Local Similarity 78.6%; Pred. No. 3.4e-38;
 Matches 103; Conservative 8; Mismatches 14; Indels 6; Gaps 2;
 OY 1 EVQLLESGVESGCGLVKPGGSLRLSCAASGFFSSYSMHWVRQGGKLEWSSISNSNT 60
 DB 1 EVQL---VESGCGLVKPGGSLRLSCAAGFFSSYSMHWVRQAGKLEWSSISNRS 56
 OY 61 YYYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARD-SRYSNFLRWVRS-DGMV 120
 DB 57 YYYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCAREGR-DILTVYYVYGLDV 114
 OY 121 WGQGTIVYVS 131
 DB 115 WGQGTIVYVS 125
 RESULT 5
 AAY06717 ID AAY06717 standard; Protein; 245 AA.
 XX AAY06717;
 AC AAY06717;
 XX 17-JUN-1999 (first entry)
 DE Antibody 12B5 single chain Fv (scfv) fragment.
 XX Agonist antibody; thrombopoietin receptor; TPO-R; thrombopoietin; DIC;
 XX megakaryocyte; platelet; immunological; hematopoietic; thrombocytopenia;
 XX bone marrow hypoplasia; disseminated intravascular coagulation; anemia;
 XX myelodysplasia; myelotoxic chemotherapy; leukaemia; tumour; MusK; CDR;
 XX neuromuscular; muscular dystrophy; complementarity determining region.
 OS Homo sapiens.
 XX WO9910494-A2.
 PN 04-MAR-1999.
 XX (HUMA-) HUMAN GENOME SCT INC.
 PA (CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.

PF 21-AUG-1998; 98WO-US17364.
 XX 25-AUG-1997; 97US-0918148.
 XX (GETH) GENENTECH INC.
 XX
 XX Adams CW, Carter PJ, Fendly BM, Gurney AL;
 XX WPI: 1999-204666/17.
 XX New thrombopoietin receptor agonist antibodies - useful for
 XX treating immunological or hematological disorders
 XX
 XX Disclosure: Fig 1; 86pp; English.
 XX The invention relates to an agonist antibody (Ab) which binds to a
 XX thrombopoietin receptor (TPO-R). The antibodies which bind the TPO-R can
 XX be used in the same way and for the same indications as thrombopoietin
 XX (TPO). They can stimulate proliferation, differentiation or growth of
 XX megakaryocytes. They may also be able to stimulate megakaryocytes to
 XX increase platelet production. They can be used for treating
 XX immunological or hematopoietic disorders, especially thrombocytopenia.
 XX Thrombocytopenia - associated bone marrow hypoplasia (e.g. aplastic anemia
 XX following chemotherapy or bone marrow transplant) may be effectively
 XX treated with the antibody compounds as well as disorders such as
 XX disseminated intravascular coagulation (DIC), immune thrombocytopenia,
 XX (HIV-induced and non HIV-induced), chronic idiopathic thrombocytopenia,
 XX congenital thrombocytopenia, thrombotic thrombocytopenia and
 XX myelodysplasia. They can also be used in e.g. myelotoxic chemotherapy for
 XX treatment of solid tumours or leukemia, myeloblastic chemotherapy for
 XX autologous or allogeneic bone marrow transplant, myelodysplasia,
 XX idiopathic aplastic anemia, congenital thrombocytopenia, and immune
 XX thrombocytopenia. The antibodies which bind to the TPO-R receptor can be
 XX used for improving neuromuscular function in a patient, e.g. in muscular
 XX dystrophy. The products can also be used for detection and diagnosis. The
 XX antibodies have a longer half-life than the natural ligand for the TPO-R.
 XX Sequences AAY06713-Y06718 represent single chain Fv (scFv) fragments of
 XX various antibodies.
 XX
 XX Sequence 245 AA:
 XX
 XX Query Match 73.7%; Score 507.5; DB 20; Length 245;
 XX Best Local Similarity 77.9%; Pred. No. 4.6e-38;
 XX Matches 102; Conservative 9; Mismatches 7; Indels 13; Gaps 2;
 XX
 XX QY 1 EVQLLESGYVESGGGLVPRGSGRLRSCAASGFTFSYSMHWVQGGKLEWVSSISNSNT 60
 XX Db 3 QVQL-----VESGGGLVPRGSGRLRSCAASGFTFSYSHNMWVQAGKLEWVSSISSSSS 58
 XX QY 61 YYYADAVKGRFTISDNKNSLYLQMSLRAEHRAVYVYCARDSDRYSNFLRWVSDGMDV 120
 XX Db 59 YYYADSVKGRFTISDNKNSLYLQMSLRAEDRAVYVYCARD-----GSTGMDV 109
 XX QY 121 WGQGTIVYSS 131
 XX Db 110 WGRGTLVTVSS 120
 XX
 XX RESULT 6
 XX ABA45753
 XX ID ABA45753 standard; Protein: 247 AA.
 XX AC ABA45753;
 XX DT 19-AUG-2002 (first entry)
 XX DE Human Blys binding scFv SEQ ID 1764.
 XX Blys: B lymphocyte stimulator; TNF superfamily; human; cytosolic;
 XX tumour necrosis factor; B cell proliferation; B cell differentiation;
 XX immunosuppressive; immunostimulant; immunomodulatory; antiinflammatory;
 XX antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
 XX systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;

KW common variable immunodeficiency; acquired immunodeficiency syndrome.
 XX Homo sapiens.
 XX W0200202641-A1.
 XX 10-JAN-2002.
 XX 15-JUN-2001; 2001WO-US19110.
 XX 16-JUN-2000; 2000US-212210P.
 XX 17-OCT-2000; 2000US-240816P.
 XX 16-MAR-2001; 2001US-276248P.
 XX 21-MAR-2001; 2001US-277379P.
 XX 25-MAY-2001; 2001US-293499P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX (CAME-) CAMBRIDGE ANTIBODY TECHNOLOGY.
 XX Ruden SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
 XX WPI: 2002-114799/15.
 XX
 XX Antibodies against B lymphocyte Stimulating polypeptides, useful for
 XX the diagnosis and treatment of cancers and immune disorders -
 XX
 XX Claim 1: Page 2507-2508; 3148pp; English.
 XX
 XX This invention describes novel antibodies that immunospecifically bind to
 XX B lymphocyte Stimulator (Blys) polypeptides. Blys is a member of the
 XX tumour necrosis factor (TNF) super family and induces B cell
 XX proliferation and differentiation. The antibodies of the invention have
 XX cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
 XX antineumatic and antiAIDS activity and can be used in vaccines to
 XX inhibit the expression and activity of Blys. The antibodies bind to Blys
 XX and so may be used to detect and quantitate the presence of Blys in
 XX biological samples and may be used in this way to diagnose disease
 XX associated with aberrant expression of Blys. They may also be
 XX administered to treat diseases associated with aberrant Blys expression
 XX and activity such as cancer, immune, and autoimmune disorders and
 XX diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
 XX immunodeficiency (e.g. common variable immunodeficiency (CVID) and
 XX acquired immunodeficiency syndrome (AIDS)). ABA43990-ABA47228 represent
 XX the antibodies and fragments of the antibodies described in the method
 XX of the invention.
 XX
 XX Sequence 247 AA:
 XX
 XX Query Match 73.5%; Score 506.5; DB 23; Length 247;
 XX Best Local Similarity 78.6%; Pred. No. 5.7e-38;
 XX Matches 103; Conservative 10; Mismatches 11; Indels 7; Gaps 3;
 XX
 XX QY 1 EVQLLESGYVESGGGLVPRGSGRLRSCAASGFTFSYSMHWVQGGKLEWVSSISNSNT 60
 XX Db 1 QVQL-----VQSGGGLVPRGSGRLRSCAASGFTFSYSHNMWVQAGKLEWVSSISSSSS 56
 XX QY 61 YYYADAVKGRFTISDNKNSLYLQMSLRAEHRAVYVYCARDSDRYSNFLRWVSDGMDV 120
 XX Db 57 YYYADSVKGRFTISDNKNSLYLQMSLRAEDRAVYVYCARD-EYDILGILQ--GMDV 113
 XX QY 121 WGQGTIVYSS 131
 XX Db 114 WGRGTLVTVSS 124
 XX
 XX RESULT 7
 XX AAE28870
 XX ID AAE28870 standard; Protein: 116 AA.
 XX AC AAE28870;
 XX DT 27-DEC-2002 (first entry)
 XX Blys: B lymphocyte stimulator; TNF superfamily; human; cytosolic;
 XX tumour necrosis factor; B cell proliferation; B cell differentiation;
 XX immunosuppressive; immunostimulant; immunomodulatory; antiinflammatory;
 XX antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;
 XX systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;

DE Human KDR (VEGFR-2) Fab heavy chain protein from D2C6 and D1H4 clone.
 XX
 XX Human; tumour; vascular endothelial growth factor receptor; metastasis;
 KW epidermal growth factor receptor; non-small cell lung carcinoma; NSCLC;
 KW breast; VEGFR; heart; EGFR; therapy; invasiveness; heavy chain; VH.
 XX
 OS Homo sapiens.
 XX
 PN WO200270008-A1.
 XX
 PD 12-SEP-2002.
 XX
 PF 04-MAR-2002; 2002WO-US06762.
 XX
 PR 02-MAR-2001; 2001US-0798689.
 XX
 PA (IMCL-) IMCLONE SYSTEMS INC.
 PA (ROCK/) ROCKWELL P.
 PA (GOLD/) GOLDSTEIN N I.
 XX
 DR WPI: 2002-691738/74.
 DR N-PSDB; AAD46290; AAD46292.
 XX
 XX Inhibiting tumor growth in humans involves administering vascular
 PT endothelial growth factor receptor antagonists in combination with
 PT radiation, chemotherapeutic agents, or epidermal growth factor receptor
 PT antagonists -
 XX
 PS Example 9; Page 123; 151pp; English.
 XX
 CC The invention relates to a method of inhibiting tumour growth which
 CC involves administering, vascular endothelial growth factor receptor
 CC (VEGFR) antagonists in combination with radiation, chemotherapeutic
 CC agent, or epidermal growth factor receptor (EGFR) antagonist. The method
 CC is useful for inhibiting tumour growth in a human, where the tumour (e.g.
 CC tumour of the breast, heart, lung, small intestine, colon, spleen, bone,
 CC kidney, bladder, head and neck, ovary, prostate, brain, pancreas, skin,
 CC bone marrow, blood, thymus, uterus, testicles, cervix or liver) over
 CC expresses VEGFR. It is also useful for inhibiting growth of colon tumour
 CC or non-small cell lung carcinoma (NSCLC) and tumour overexpressing EGFR.
 CC It is preferably useful for treating subjects with both solid tumours,
 CC preferably high vascular tumours and non-solid tumours. The inhibition
 CC or reduction of tumour growth includes prevention or inhibition of the
 CC progression of tumour, including cancerous and non-cancerous tumours,
 CC where the progression of tumours includes the invasiveness, metastasis,
 CC recurrence and increase in size of the tumour. The present sequence is
 CC human KDR (VEGFR-2) Fab antibody heavy chain protein.
 CC
 XX
 SQ Sequence 116 AA;
 Query Match 73.2%; Score 504.5; DB 23; Length 116;
 Best Local Similarity 77.1%; Pred. No. 3.8e-38;
 Matches 101; Conservative 8; Mismatches 7; Indels 15; Gaps 2;
 QY 1 EVQLLESGVESGGLVPRGGSRLRSCAASGFTFSYSMMHWROGPGKLEWYSISNSNT 60
 DB 1 EVQL-----VQSGGGLVPRGGSRLRSCAASGFTFSYSMMHWROAPGKLEWYSISNSSS 56
 QY 61 YIYADAVKGRFTISRDNKAKNSLYLQMSLRAEHTAVYYCARDSTRYSNFLRWVRSDGMDV 120
 DB 57 YIYADSVKGRFTISRDNKAKNSLYLQMSLRAEDPTAVYYCAR-----YVDADF 105
 QY 121 WGQGTIVYSS 131
 DB 106 WGQGTIVYSS 116
 RESULT 8
 ID ABJ26763 standard; Protein; 116 AA.
 XX ABJ26763;
 AC
 XX

DT 01-MAY-2003 (first entry)
 XX
 DE VEGF binding related protein SEQ ID NO 76.
 XX
 KW Cytostatic; antibody; antigen binding site; VEGF receptor; mitogenesis;
 KW leukaemia cell; vascular endothelial growth factor; tumour;
 KW bispecific antigen-binding protein; human.
 XX
 OS Homo sapiens.
 XX
 PN WO2003002144-A1.
 XX
 PD 09-JAN-2003.
 XX
 PF 26-JUN-2002; 2002WO-US20332.
 XX
 PR 26-JUN-2001; 2001US-301299P.
 XX
 PA (IMCL-) IMCLONE SYSTEMS INC.
 XX
 PI Zhu Z;
 XX
 DR WPI: 2003-201468/19.
 DR N-PSDB; ABR23325.
 XX
 XX New bispecific antibodies having antigen-binding sites specific for a
 PT first vascular endothelial growth factor (VEGF) receptor and for a
 PT second VEGF receptor, useful for inhibiting migration of leukemia
 PT cells, or for treating tumors -
 XX
 PS Claim 15; Page 70-71; 98pp; English.
 XX
 CC The invention relates to a novel antibody having a first antigen binding
 CC site specific for a first vascular endothelial growth factor (VEGF)
 CC receptor and a second antigen-binding site specific for a second VEGF
 CC receptor. The bispecific antigen-binding proteins block activation of the
 CC VEGF receptor and are useful for reducing or inhibiting VEGF-induced
 CC cellular functions such as mitogenesis of vascular endothelial cells
 CC and migration of leukaemia cells. The antibodies are useful for treating
 CC tumors and for in vivo or in vitro for investigative and diagnostic
 CC methods. This sequence represents a human protein relating to the
 CC bispecific antibodies that bind to the VEGF receptors of the invention.
 CC
 XX
 SQ Sequence 116 AA;
 Query Match 73.2%; Score 504.5; DB 24; Length 116;
 Best Local Similarity 77.1%; Pred. No. 3.8e-38;
 Matches 101; Conservative 8; Mismatches 7; Indels 15; Gaps 2;
 QY 1 EVQLLESGVESGGLVPRGGSRLRSCAASGFTFSYSMMHWROGPGKLEWYSISNSNT 60
 DB 1 EVQL-----VQSGGGLVPRGGSRLRSCAASGFTFSYSMMHWROAPGKLEWYSISNSSS 56
 QY 61 YIYADAVKGRFTISRDNKAKNSLYLQMSLRAEHTAVYYCARDSTRYSNFLRWVRSDGMDV 120
 DB 57 YIYADSVKGRFTISRDNKAKNSLYLQMSLRAEDPTAVYYCAR-----YVDADF 105
 QY 121 WGQGTIVYSS 131
 DB 106 WGQGTIVYSS 116
 RESULT 9
 ID AAE28873 standard; Protein; 116 AA.
 XX AAE28873;
 AC
 XX
 XX 27-DEC-2002 (first entry)
 DE Human KDR (VEGFR-2) Fab heavy chain (VH) protein from D2H2 clone.
 XX
 KW Human; tumour; vascular endothelial growth factor receptor; metastasis;
 XX

KW epidermal growth factor receptor; non-small cell lung carcinoma; NSCLC;
 KM breast; VEGFR; heart; EGFR; therapy; invasiveness; heavy chain; VH.
 XX Homo sapiens.
 OS
 XX WO200270008-A1.
 PN
 PD 12-SEP-2002.
 XX
 PF 04-MAR-2002; 2002WO-US06762.
 XX
 PR 02-MAR-2001; 2001US-0798689.
 XX
 PA (IMCL-) IMCLONE SYSTEMS INC.
 PA (ROCK/) ROCKWELL P.
 PA (GOLD/) GOLDSTEIN N I.
 XX
 DR WPI; 2002-691738/74.
 DR N-PSDB; AAD46294.
 XX
 PT Inhibiting tumor growth in humans involves administering vascular
 PT endothelial growth factor receptor antagonists in combination with
 PT radiation, chemotherapeutic agents, or epidermal growth factor receptor
 PT antagonists -
 PS
 XX Example 12; Page 127; 151pp; English.
 XX
 PS The invention relates to a method of inhibiting tumour growth which
 CC involves administering, vascular endothelial growth factor growth which
 CC (VEGFR) antagonists in combination with radiation, chemotherapeutic
 CC agent, or epidermal growth factor receptor (EGFR) antagonist. The method
 CC is useful for inhibiting tumour growth in a human, where the tumour (e.g.
 CC tumour of the breast, heart, lung, small intestine, colon, spleen, bone,
 CC kidney, bladder, head and neck, ovary, prostate, brain, pancreas, skin,
 CC bone marrow, blood, thymus, uterus, testicles, cervix or liver) over
 CC expresses VEGFR. It is also useful for inhibiting growth of colon tumour
 CC or non-small cell lung carcinoma (NSCLC) and tumour overexpressing EGFR.
 CC It is preferably useful for treating subjects with both solid tumours,
 CC preferably high vascular tumours and non-solid tumours. The inhibition
 CC or reduction of tumour growth includes prevention or inhibition of the
 CC progression of tumour, including cancerous and non-cancerous tumours,
 CC where the progression of tumours includes the invasiveness, metastasis,
 CC recurrence and increase in size of the tumour. The present sequence is
 CC human KDR (VEGFR-2) Fab antibody heavy chain protein.
 CC
 SO Sequence 116 AA;
 Query Match 72.5%; Score 499.5; DB 23; Length 116;
 Best Local Similarity 76.3%; Pred. No. 1.1e-37;
 Matches 100; Conservative 9; Mismatches 7; Indels 15; Gaps 2;
 QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTSSSYMHVVRGQPGKGLWVSSISNSNT 60
 DB 1 EVOL----VQSGGGLVPGGSLRLSCAASGFTSSSYMHVVRGQPGKGLWVSSISNSNT 56
 QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYCCAR-----VTDADF 105
 DB 57 YIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYCCAR-----VTDADF 105
 QY 121 WGCGTIVYSS 131
 DB 106 WGCGTIVYSS 116

RESULT 10
 ABJ26766
 ID ABJ26766 standard; Protein; 116 AA.
 AC
 XX ABJ26766;
 AC
 XX 01-MAY-2003 (first entry)
 DT
 KW VEGF binding related protein SEQ ID No 83.
 DE

XX Cytostatic; antibody; antigen binding site; VEGF receptor; mitogenesis;
 KM leukaemia cell; vascular endothelial growth factor; tumour;
 KW bispecific antigen-binding protein; human.
 XX Homo sapiens.
 OS
 XX WO2003002144-A1.
 PN
 PD 09-JAN-2003.
 XX
 PF 26-JUN-2002; 2002WO-US20332.
 XX
 PR 26-JUN-2001; 2001US-301299P.
 XX
 PA (IMCL-) IMCLONE SYSTEMS INC.
 PA
 PI Zhu Z;
 PI
 DR WPI; 2003-201468/19.
 DR N-PSDB; ABT23330.
 XX
 PT New bispecific antibodies having antigen-binding sites specific for a
 PT first vascular endothelial growth factor (VEGF) receptor and for a
 PT second VEGF receptor, useful for inhibiting migration of leukemia
 PT cells, or for treating tumors -
 PS
 XX Claim 15; Page 74; 98pp; English.
 XX
 PS The invention relates to a novel antibody having a first antigen binding
 CC site specific for a first vascular endothelial growth factor (VEGF)
 CC receptor and a second antigen-binding site specific for a second VEGF
 CC receptor. The bispecific antigen-binding proteins block activation of the
 CC VEGF receptor and are useful for reducing or inhibiting VEGF-induced
 CC cellular functions such as mitogenesis of vascular endothelial cells
 CC and migration of leukemia cells. The antibodies are useful for treating
 CC tumors and for in vivo or in vitro for investigative and diagnostic
 CC methods. This sequence represents a human protein relating to the
 CC bispecific antibodies that bind to the VEGF receptors of the invention.
 CC
 SO Sequence 116 AA;
 Query Match 72.5%; Score 499.5; DB 24; Length 116;
 Best Local Similarity 76.3%; Pred. No. 1.1e-37;
 Matches 100; Conservative 9; Mismatches 7; Indels 15; Gaps 2;
 QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTSSSYMHVVRGQPGKGLWVSSISNSNT 60
 DB 1 EVOL----VQSGGGLVPGGSLRLSCAASGFTSSSYMHVVRGQPGKGLWVSSISNSNT 56
 QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYCCAR-----VTDADF 105
 DB 57 YIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYCCAR-----VTDADF 105
 QY 121 WGCGTIVYSS 131
 DB 106 WGCGTIVYSS 116

RESULT 11
 ABP45845
 ID ABP45845 standard; Protein; 249 AA.
 AC
 XX ABP45845;
 AC
 XX 19-AUG-2002 (first entry)
 DT
 KW Human Blys binding scFv SEQ ID 1856.
 XX
 DE

Blys; B lymphocyte stimulator; TNF superfamily; human; cytosstatic;
 KW tumour necrosis factor; B cell proliferation; B cell differentiation;
 KW immunosuppressive; immunomodulatory; antithematic;
 KW antiAIDS; vaccine; cancer; immune; autoimmune disorder; immunodeficiency;

KW	systemic lupus erythematosus; rheumatoid arthritis; CVID; AIDS;
KV	common variable immunodeficiency; acquired immunodeficiency syndrome.
XX	
OS	Homo sapiens.
PN	MO200202641-AL.
XX	
XX	10-JAN-2002.
XX	
XX	15-JUN-2001; 2001WO-US19110.
XX	
PR	16-JUN-2000; 2000US-212210P.
PR	17-OCT-2000; 2000US-240816P.
PR	16-MAR-2001; 2001US-276248P.
PR	21-MAR-2001; 2001US-277379P.
PR	25-MAY-2001; 2001US-293499P.
XX	
PA	(HUMA-) HUMAN GENOME SCI INC.
PA	(CAMB-) CAMBRIDGE ANTIBODY TECHNOLOGY.
XX	
PI	Ruben SM, Barash SC, Choi GH, Vaughan T, Hilbert D;
XX	
DR	WPI; 2002-114799/15.
XX	
PT	Antibodies against B Lymphocyte Stimulating polypeptides, useful for
PT	the diagnosis and treatment of cancers and immune disorders -
XX	
XX	Claim 1; Page 2616-2617; 3148pp; English.
CC	
CC	This invention describes novel antibodies that immunospecifically bind to
CC	B Lymphocyte Stimulator (BLyS) polypeptides. BLyS is a member of the
CC	tumour necrosis factor (TNF) super family and induces B cell
CC	proliferation and differentiation. The antibodies of the invention have
CC	cytostatic, immunosuppressive, immunostimulant, immunomodulatory,
CC	antirheumatic and antiAIDS activity and can be used in vaccines to
CC	inhibit the expression and activity of BLyS. The antibodies bind to BLyS
CC	and so may be used to detect and quantitate the presence of BLyS in
CC	biological samples and may be used in this way to diagnose disease
CC	associated with aberrant expression of BLyS. They may also be
CC	administered to treat diseases associated with aberrant BLyS expression
CC	and actively such as cancer, immune, and autoimmune disorders and
CC	diseases, e.g. systemic lupus erythematosus, rheumatoid arthritis,
CC	immunodeficiency (e.g. common variable immunodeficiency (CVID) and
CC	acquired immunodeficiency syndrome (AIDS)). ABP4390-ABP47228 represent
CC	the antibodies and fragments of the antibodies described in the method
CC	of the invention.
XX	
XX	Sequence 249 AA;
SO	
Query Match	72.5%; Score 499.5; DB 23; Length 249;
Best Local Similarity	78.6%; Pred. No. 2.5e-37;
Matches 103; Conservative	7; Mismatches 14; Indels 7; Gaps 3;
OY	1 EVQLVESGGGGLVPGGSLRLISCAASGFTFSSTAMWYRQGPGKLEWVSISNSNT 60
DB	1 EVOL-----VESGGGLVPGGSLRLISCAASGFTFSSTAMWYRQAGKLEWVSISNSSS 56
OY	61 YIYADVAVKGGFTISRDNAKNSLYLQNMNSLAETHAVYYCCARDSDSYNFLMVRSDGDY 120
DB	57 YIYADSKKGGFTISRDNAKNSLYLQNMNSLAEDTAVYYCAR-GRYDILITGFTS--FDY 113
OY	121 WGQGTIVVSS 131
DB	114 WGQGTIVTVSS 124
RESULT 12	
ABG77142	
ID	ABG77142 standard; Protein; 125 AA.
XX	
XX	ABG77142;
XX	
XX	24-OCT-2002 (first entry)

XX		Antl-IGF-IR antibody (4.9.2) variable region heavy chain protein.
DE		
XX		
KW		Insulin-like growth factor I receptor; antibody; human;
KM		Cytosolic; osteopathic; antiatherosclerotic; antipsoriatic;
KV		IGF-IR; tumour; anti-neoplastic; anti-tumour; anti-angiogenic;
KW		neuropathy; osteoporosis; acromegaly; gigantism; psoriasis;
KW		atherosclerosis.
XX		
OS	Homo sapiens.	
XX		
PN	WO20023596-A2.	
PD	11-JUL-2002.	
XX		
PF	20-DEC-2001; 2001WO-US51113.	
XX		
PR	05-JAN-2001; 2001US-259927P.	
XX		
PA	(PEIZ) PRIZER INC.	
PA	(ABGE-) ABGENIX INC.	
XX		
PI	Cohen BD, Beebe J, Miller PE, Moyer JD, Corvalan JR, Gallo M;	
XX		
DR	WPT: 2002-575410/61.	
N-P	PSDB: ABS62704.	
XX		
PT	Novel humanized, chimeric monoclonal antibody that specifically binds	
PT	to insulin-like growth factor I (IGF-I) receptor useful for inhibiting	
PT	binding of IGF-I or IGF-II to receptor and for treating cancer in	
PT	humans .	
XX		
PS	Claim 13; Page 130; 172pp; English.	
XX		
CC	This invention relates to a novel humanised, chimeric or human	
CC	monoclonal antibody or its antigen binding portion that specifically	
CC	binds to insulin-like growth factor I receptor (IGF-IR). The antibodies	
CC	of the invention can act as an inhibitor of binding of IGF-I or IGF-II	
CC	with IGF-IR and can inhibit in vivo tumour growth and IGF-IR tyrosine	
CC	phosphorylation. The antibodies of the invention are useful for	
CC	diagnosing the presence or location of an IGF-IR-expressing tumour in a	
CC	subject. The antibody or its antigen-binding portion is also useful for	
CC	treating cancer in a human. The method for this further involves an anti-	
CC	neoplastic, anti-tumour, anti-angiogenic or chemotherapeutic agent.	
CC	The antibodies may also be useful for increasing IGF-IR activity and	
CC	this restoring IGF-IR activity in a condition characterised by low	
CC	IGF-IR levels e.g. neuropathy, or osteoporosis. An antibody of the	
CC	invention is also useful for inducing apoptosis of specific cells in a	
CC	patient, and to treat non-cancerous states or disease, e.g. acromegaly,	
CC	gigantism, psoriasis and atherosclerosis. Fully human anti-IGF-IR	
CC	antibodies minimise the immunogenic and allergic responses intrinsic to	
CC	mouse or mouse-derived monoclonal antibodies and thus increase the	
CC	efficacy and safety of the administered antibodies. The present sequence	
CC	represents an anti-insulin-like growth factor I receptor antibody of the	
CC	invention.	
CC		
XX		
SQ	Sequence 125 AA:	
	Query Match 72.4%; Score 499; DB 23; Length 125;	
	Best Local Similarity 76.3%; Pred. No. 1.3e-37;	
	Matches 100; Conservative 9; Mismatches 16; Indels 6; Gaps 2	
Dd		
	1 EVOLLSESVEGGGIVKPPGSILRLSCASGFFSSYSNMHWROGKGLEWMYSSISNSMT 60 : : : : : 1 EVQLL-----ESGGGLVPQGSGSLRISCASGFTFSSTIAWSWAQAQAGKEWMSALISGSGC 56	
Oy		
	61 YIYYADAVKKFGFTISRDNAKNLSLYQMNSLRAEHNAVYVCARDSESYSNELFRVRSDGM DY 120 : : : : : Db 57 ITTYADVSKRGFTISRDKNSKNITLVYIQNNSLREADIAYVYCCKADLTGYDPYYY--CM DY 114	
Oy		
	121 WGCGTTVIVSS 131 : : : : Dd 115 WGGGTTVIVSS 125	

Best Local Similarity 78.6%; Pred. No. 3.7e-37;
Matches 103; Conservative 8; Mismatches 13; Indels 7; Gaps 3;

QY 1 EVOLLESGVGGGLVPRGSLRLSCAASGFTFSYSHHWYRGPGKLEWVSSISNSNT 60
Db 1 QVQL- - - - -VESGGGLVPRGSLRLSCAASGFTFSYSHHWYRGPGKLEWVSSISNSNT 56
61 YIYYADAVKGRFTISRDNAKNSLYLQMNLSRAEHTAVYYCARDSRYSNFLRWSDGMDV 120
Db 57 YIYYADSVKGRFTISRDNAKNSLYLQMNLSRAEDTAVYYCA-TLGYDILGYSND--DY 113

QY 121 WGOGTTIVSS 131
Db 114 WGKGLTVVSS 124

RESULT 15
ABG77162
ID ABG77162 standard; Protein; 473 AA.
XX
AC ABG77162;
XX
DT 24-OCT-2002 (first entry)
XX
DE Germline protein sequence of anti-IGF-IR antibody DP-35(3-11)/D3-3/JH6.
XX
KW Insulin-like growth factor I receptor; antibody; human;
KW Cytostatic; osteopathic; antiatherosclerotic; antipsoriatic;
KW IGF-IR; tumour; anti-neoplastic; anti-tumour; anti-angiogenic;
KW neuropathy; osteoporosis; acromegaly; gigantism; psoriasis;
KW atherosclerosis.
XX
OS Homo sapiens.
XX
PN W0200253596-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-US51113.
XX
PR 05-JAN-2001; 2001US-259927P.
XX
PA (PE12) PFIZER INC.
XX (ABGE-) ABGENIX INC.
XX
PI Cohen BD, Beebe J, Miller PE, Moyer JD, Corvalan JR, Gallo M;
XX
DR WPI: 2002-575410/61.
XX
PS
XX
CC This invention relates to a novel humanised, chimeric or human
CC monoclonal antibody or its antigen binding portion that specifically
CC binds to insulin-like growth factor I receptor (IGF-IR). The antibodies
CC of the invention can act as an inhibitor of binding of IGF-I or IGF-II
CC with IGF-IR and can inhibit in vivo tumour growth and IGF-IR tyrosine
CC phosphorylation. The antibodies of the invention are useful for
CC diagnosing the presence or location of an IGF-IR-expressing tumour in a
CC subject. The antibody or its antigen-binding portion is also useful for
CC treating cancer in a human. The method for this further involves an anti
CC neoplastic, anti-tumour, anti-angiogenic or chemotherapeutic agent.
CC The antibodies may also be useful for increasing IGF-IR activity and
CC thus restoring IGF-IR activity in a condition characterised by low
CC IGF-IR levels e.g. neuropathy, or osteoporosis. An antibody of the
CC invention is also useful for inducing apoptosis of specific cells in a
CC patient, and to treat non-cancerous states or disease, e.g. acromegaly,
CC gigantism, psoriasis and atherosclerosis. Fully human anti-IGF-IR
CC antibodies minimise the immunogenic and allergic responses intrinsic to

CC mouse or mouse-derivatised monoclonal antibodies and thus increase the
CC efficacy and safety of the administered antibodies. The present sequence
CC represents an anti-insulin-like growth factor I receptor antibody of the
CC invention.

SO Sequence 473 AA;

Query Match 72.1%; Score 496.5; DB 23; Length 473;

Best Local Similarity 76.3%; Pred. No. 9.4e-37;
Matches 103; Conservative 6; Mismatches 15; Indels 11; Gaps 3;

QY 1 EVOLLESGVGGGLVPRGSLRLSCAASGFTFSYSHHWYRGPGKLEWVSSISNSNT 60
Db 20 QVQL- - - - -VESGGGLVPRGSLRLSCAASGFTFSYSHHWYRGPGKLEWVSSISNSNT 75

QY 61 YIYYADAVKGRFTISRDNAKNSLYLQMNLSRAEHTAVYYCARDSRYSNFLRW- - - - -RSD 116
Db 76 YIYYADSVKGRFTISRDNAKNSLYLQMNLSRAEDTAVYYCARVLR- - - - -FLEMLLYYYYYY 132

QY 117 GMDYWGOGTTIVSS 131
Db 133 GMDYWGOGTTIVSS 147

Search completed: September 24, 2003, 06:26:49
Job time : 72 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 24, 2003, 05:55:00 ; Search time 39 seconds

(without alignments)
323.028 Million cell updates/sec

Title: US-09-848-798a-28

Perfect score: 689
Sequence: 1 EVQLLESGVSGGGLVPRPG.....WYRSDGMDVWGQGTIVVSS 131

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	503	73.0	123	2	S26794 Ig heavy chain V r
2	494.5	71.8	141	2	S31669 Ig heavy chain V r
3	490	71.1	123	2	S31114 Ig heavy chain - h
4	485	70.4	125	2	S30531 Ig heavy chain V r
5	481	69.8	140	2	S31588 Ig heavy chain V r
6	479	69.3	143	2	S23624 Ig heavy chain V r
7	477.5	69.3	122	2	E36005 Ig heavy chain V r
8	475	68.9	119	2	C36005 Ig heavy chain V r
9	473	68.7	117	2	S34012 Ig heavy chain V r
10	473	68.7	160	2	S05271 Ig heavy chain pre
11	470.5	68.3	118	2	S31105 Ig heavy chain (su
12	470.5	68.3	128	2	S26790 Ig heavy chain V r
13	469.5	68.1	147	2	I37780 Ig variable region
14	469	68.1	119	2	S31108 Ig heavy chain - h
15	468.5	68.0	128	2	S48797 Ig heavy chain V r
16	468	67.9	119	2	F36005 Ig heavy chain V r
17	467.5	67.9	120	2	S48798 Ig heavy chain V r
18	467	67.8	119	2	S31107 Ig heavy chain - h
19	466	67.6	117	2	S78486 Ig heavy chain V r
20	465.5	67.6	128	2	S26786 Ig heavy chain V r
21	465	67.5	123	2	S30532 Ig heavy chain V r
22	464.5	67.4	114	2	S31120 Ig heavy chain - h
23	463.5	67.3	120	2	E49590 Ig heavy chain V r
24	463	67.2	98	2	S26940 Ig heavy chain V r
25	461	66.9	119	2	D36005 Ig heavy chain V r
26	461	66.9	152	2	B26471 Ig heavy chain pre
27	459	66.6	127	2	S19878 Ig heavy chain V r
28	458.5	66.5	128	2	S31595 Ig heavy chain V r
29	458	66.5	116	2	S21979 Ig heavy chain V-g

30	457.5	66.4	136	2	S31587 Ig heavy chain V r
31	456.5	66.3	124	2	S20782 Ig heavy chain V r
32	456	66.2	121	2	I55673 Ig heavy chain - h
33	454	65.9	134	2	S31679 Ig heavy chain V r
34	453	65.7	138	2	S31666 Ig heavy chain V r
35	453	65.7	140	2	S31686 Ig heavy chain V r
36	452.5	65.7	114	2	S46390 Ig heavy chain V r
37	452	65.6	121	2	S31118 Ig heavy chain - h
38	452	65.6	123	2	S31509 Ig heavy chain - h
39	451.5	65.5	110	2	PH1652 Ig heavy chain V r
40	451.5	65.5	116	2	S17080 Ig heavy chain V-g
41	451.5	65.5	118	2	S31116 Ig heavy chain - h
42	451	65.5	134	2	S31699 Ig heavy chain V r
43	450	65.3	121	2	G36005 Ig heavy chain V r
44	449.5	65.2	140	2	S70442 Ig heavy chain pre
45	449	65.2	130	2	I37783 Ig variable region

ALIGNMENTS

```

RESULT 1
S26794
Ig heavy chain V region - human
C:Species: Homo sapiens (man)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 17-Mar-1999
C:Accession: S26794
R:Mortari, F.; Newton, J.A.; Wang, J.Y.; Schroeder Jr., H.W.
Eur. J. Immunol. 22, 241-245, 1992
A>Title: The human cord blood antibody repertoire. Frequent usage of the V(H)7 gene f
A:Reference number: S26786; MUID:92111632; PMID:1730251
A:Accession: S26794
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-123 <MOR>
A:Cross-references: EMBL:X61011
C:Superfamily: Immunoglobulin V region; Immunoglobulin homology
C:Keywords: heterotetramer; Immunoglobulin
F:15-98/Domain: Immunoglobulin homology <IMV>

Query Match          73.0%; Score 503; DB 2; Length 123;
Best Local Similarity 77.4%; Pred. No. 4.8e-38;
Matches 103; Conservative 8; Mismatches 10; Indels 12; Gaps 3;

QY      1 EVQLLESGVSGGGLVPRPGSLRLSCAASGFTFSSYSMMHWQGPKGLEWYSTISNSMT 60
        |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db.      1 EVQL---VESGGGLVQPGGSLRLSCAASGFTFSSYSMMHWQAPKGLEWYSISSSS 56
        |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY      61 YIYYADAVKGRFTISDNKNSLYLQMSLRAEHFAVYVCARDSR--SNFLRWVSDGM 118
        |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db       57 TIYYADSVKGRFTISDNKNSLYLQMSLRDREDTAVYCAISKYDENY-----GM 110
        |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||

QY      119 DWVGQGTIVVSS 131
        |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db       111 DWVGQGTIVVSS 123

RESULT 2
S31669
Ig heavy chain V region - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 23-Jul-1999
C:Accession: S31669
R:Cuisinier, A.M.; Gauthier, L.; Boudli, L.; Fougereau, M.; Tonnelle, C.
submitted to the EMBL Data Library, June 1992
A>Description: Mechanisms that generate human immunoglobulin diversity operate from t
A:Reference number: S31585
A:Accession: S31669
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-141 <CUI>
A:Cross-references: EMBL:214212; NID:g30959; PIDN:CAA78581.1; PID:g30960
C:Superfamily: Immunoglobulin V region; Immunoglobulin homology

```


Query Match	69.5%;	Score 479;	DB 2;	Length 143;
Best Local Similarity	76.3%;	Pred. No. 7.8e-36;		
Matches 100;	Conservative 7;	Mismatches 10;	Indels 14;	Gaps 3;

[illegible]

RESULT 7
E36005

C:Species: Homo sapiens (man)
C:Date: 21-Dec-1990 #sequence_revision 21-Dec-1990 #text_change 16-Dec-1998
C:Accession: E36005
S:Schroeder Jr., H.W.; Wang, J.Y.
Proc. Natl. Acad. Sci. U.S.A. 87, 6146-6150, 1990
A:Title: Preferential utilization of conserved immunoglobulin heavy chain variable gene
A:Reference number: A36005; MUID:90349571; PMID:2117273
A:Accession: E36005
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-122 <SCH>
A:Cross-references: GB:M34030
C:Genetics:
A:Gene: GDB:IGH; IGHDX1
A:Cross-references: GDB:118731; OMIM:146910
A:Map position: 14q32.33-14q32.33
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
C:15-98/Domain: immunoglobulin homology <IM>

[illegible]

RESULT 8

C36005
Ig heavy chain V region (30p1) - human
C/Species: Homo sapiens (man)
C/Date: 21-Dec-1990 #sequence_revision 21-Dec-1990 #text_change 16-Aug-1996
C/Accession: C36005
R/Schroeder Jr., H.W.; Wang, J.Y.
Proc. Natl. Acad. Sci. U.S.A. 87, 6146-6150, 1990
A>Title: Preferential utilisation of conserved immunoglobulin heavy chain variable gene
A/Reference number: A36005; MUID:90349571; PMID:2117273
A/Accession: C36005
A/Status: Preliminary
A/Molecule type: mRNA
A/Residues: 1-119 <SCH>
A/Cross-references: GB:M18513

C; Superfamily: immunoglobulin V region; immunoglobulin homology
C; Keywords: heterotetramer; immunoglobulin
F; 15-98/Domain: immunoglobulin homology <IMM>

	Query Match	68.9%	Score 475	DB 2	Length 119
	Match Similarity	72.5%	Pred. No. 1.5e-35		
	Matches	95	Conservative 10	Mismatches 14	Indels 12
					Gaps 2
Oy	1	EVOLLSESVGGGIVKPGGSLRLSCAASGFFTSYSMHWVROGKGKLEWVSISNSNT	60		
Db	1	EVOLL----EESGGIVKPGGSLRLSCAASGFFTSYSMHWVROGKGKLEWVSATISGSG	56		
Oy	61	YIYADAVAKGFTTSRDNAKNSLYLQMSLRAEHTYAYCARDKRYSNFLRWVRSDGMDY	120		
Db	57	STYADSVKGFRTTSRDNSKNTLYLQMSLRAEDTAYVYXCAKDAWGMS-----GFXY	108		
Oy	121	WGOGTIVYVS 131			
Db	109	WGOGTIVYVS 119			

```

RESULT 9
S34012
1g heavy chain V region - human
C:Species: Homo sapiens (man)
C:Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 16-Aug-1996
C:Accession: S34012; S30538
R:Marlette, X.; Tsapis, A.; Brouet, J.C.

```

RESULT 9

Ig heavy chain V region - human
C:Species: Homo sapiens (man)
C:Date: 22-Nov-1993 #sequence.revision 10-Nov-1995 #text-change 16-Aug-1996
C:Accession: S34012; S30538
R:Mariette, X.; Tsapis, A.; Brouet, J.C.
Eur. J. Immunol. 23, 846-851, 1993
A:Title: Nucleotide sequence analysis of the variable domains of four human monoclonal
A:Reference number: S34001; MUID:93209281; PMID:7681398
A:Accession: S34012
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-117 <MAR>
A:Cross-references: EMBL:Z18324
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
C:;15-95/Domain: immunoglobulin homology <IM>

Query Match	68.7%	Score 473;	DB 2:	Length 117;
Best Local Similarity	74.8%;	Pred. No. 2.2e-35;		
Matches	98;	Conservative	7;	Mismatches 12; Indels 14; Gaps 3
QY	1	EVOLLSESVESGGGGLVYKPGGSLRLSCAASGFTFSYSMHWYRQCGKGLWVSSISNSNT	60	
	1	EVOL-----VEGGGGLVYKPGGSLRLSCAASGFTFSYSMHWYRQAGKGLWVSS---SSS	53	
Db				
QY	61	YIYVADAVKGRFTTSRDNAKNSLYLQNNSLRAEHTAYVYCCADSRYSNFLRWVRSDGMDV	120	
Db	54	YIFADVSKGFFTTSRDKNKNSLYLQNNSLRAEDTAYVYCCARAGESYGF-----ADY	106	
QY	121	WGQGTIVYVSS	131	
Db	107	WGRGTLVYVSS	117	

```

RESULT 10
S05271
Iq heavy chain precursor - human (Fragment)
C:Species: Homo sapiens (man)
C:Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text-change 16-Aug-1996
Accession: S05271; S04602

```

RESULT 10

ig heavy chain precursor - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 16-Aug-1996
C:Accession: S05271; S04602
R:Kishimoto, T.
submitted to the EMBL Data Library, March 1989
A:Reference number: S05270
A:Accession: S05271
A:Molecule type: mRNA
A:Residues: 1-160 <KIS1>
A:Cross-references: EMBL:X14584
R:Kishimoto, T.; Okajima, H.; Okumoto, T.; Taniguchi, M.
Nucleic Acids Res. 17, 14385, 1989
::Title: Nucleotide sequences of the cDNAs encoding the V-regions of H- and L-chains

A:Reference number: S04601; MUID:89296497; PMID:2500644

A:Accession: S04602
A:Molecule type: mRNA
A:Residues: 1-144 <RTS2>
A:Cross-references: EMBL:X14584
C:Superfamily: Immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotrimer; immunoglobulin
F:1-19/Domain: signal sequence #status predicted <SIG>
F:20-160/Product: Ig heavy chain (fragment) #status predicted <MAT>
F:34-117/Domain: immunoglobulin homology <IMM>

Query Match 68.7%; Score 473; DB 2; Length 160;
Best Local Similarity 73.9%; Pred. No. 3e-35;
Matches 99; Conservative 9; Mismatches 14; Indels 12; Gaps 3;

QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTFSYSMHWVRGPGKLEWVSSISNSNT 60
Db 20 EVOLLESVSGGGLVPGGSLRLSCAASGFTFSYAMGVVRGPGKLEWVSAISGSG 75
QY 61 YYYADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVRS---DG 117
Db 76 STYYADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCAK-----AVRGVLSYIYVG 130
QY 118 MDVWGQGTIVVSS 131
Db 131 MDVWGQGTIVVSS 144

RESULT 11

19 heavy chain (subclass IgM) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 22-Nov-1993 #sequence_revision 26-May-1995 #text_change 23-Jul-1999
C:Accession: S31105
R:Raaphorst, F.M.; Timmers, E.; Kenter, M.J.H.; van Tol, M.J.D.; Vossen, J.M.; Schuurman
Eur. J. Immunol. 22, 247-251, 1992
A:Title: Restricted utilization of germ-line V(H)3 genes and short diverse third complement
A:Reference number: S31104; MUID:92111633; PMID:1730252
A:Accession: S31105
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: mRNA
A:Residues: 1-118 <RAA>
A:Cross-references: EMBL:X63081; NID:932648; PIDN:CAA44803.1; PID:932649
A:Note: the nucleotide sequence was submitted to the EMBL Data Library, October 1991
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotrimer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 68.3%; Score 470.5; DB 2; Length 118;
Best Local Similarity 72.5%; Pred. No. 3.6e-35;
Matches 95; Conservative 7; Mismatches 16; Indels 13; Gaps 2;
QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTFSYSMHWVRGPGKLEWVSSISNSNT 60
Db 1 QVOL----VESGGGLVPGGSLRLSCAASGFTFSYDMYMSIRQAPKGLEWVSYISSSS 56
QY 61 YYYADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVRSQMDV 120
Db 57 TIYYADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCAQ-----LGDPAFDI 107
QY 121 WGQGTIVVSS 131
Db 108 WGQGTIVVSS 118

RESULT 12

S26790
Ig heavy chain V region - human
C:Species: Homo sapiens (man)
C:Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #text_change 20-Jun-2000
C:Accession: S26790
R:Kortt, F.; Newton, J.A.; Wang, J.Y.; Schroeder Jr., H.W.
Eur. J. Immunol. 22, 241-245, 1992

A:Title: The human cord blood antibody repertoire. Frequent usage of the V(H)7 gene f

A:Reference number: S26786; MUID:92111632; PMID:1730251
A:Accession: S26790
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-128 <MOR>
A:Cross-references: EMBL:X61013; NID:932798; PIDN:CAA43347.1; PID:91335128
C:Superfamily: immunoglobulin V region; immunoglobulin homology
C:Keywords: heterotrimer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 68.3%; Score 470.5; DB 2; Length 128;
Best Local Similarity 73.5%; Pred. No. 4e-35;
Matches 97; Conservative 7; Mismatches 23; Indels 5; Gaps 2;

QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTFSYSMHWVRGPGKLEWVSSISNSNT 60
Db 1 QVOL----VESGGGLVPGGSLRLSCAASGFTFSYMSVIRQAPKGLEWVSYISSSS 56
QY 61 YYYADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVRSQMDV 119
Db 57 TIYYADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCAKRDGPGGLRAVAGQWYFD 116
QY 120 VMGQGTIVVSS 131
Db 117 LMGRGTLTVVSS 128

RESULT 13

19 variable region (VDJ) (clone T20-11) - human (fragment)
C:Species: Homo sapiens (man)
C:Date: 16-Feb-1996 #sequence_revision 16-Feb-1996 #text_change 23-Jul-1999
C:Accession: S31780; S25474
R:Demaison, C.; Chastagner, P.; Theze, J.; Zouali, M.
Proc. Natl. Acad. Sci. U.S.A. 91, 514-518, 1994
A:Title: Somatic diversification in the heavy chain variable region genes expressed b
A:Reference number: A36876; MUID:94119917; PMID:8290556
A:Accession: 137780
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-147 <RES>
A:Cross-references: EMBL:X67943; NID:933578; PIDN:CAA48130.1; PID:933579
A:Superfamily: immunoglobulin V region; immunoglobulin homology
F:28-111/Domain: immunoglobulin homology <IMM>

Query Match 68.1%; Score 469.5; DB 2; Length 147;
Best Local Similarity 72.5%; Pred. No. 5.7e-35;
Matches 95; Conservative 9; Mismatches 20; Indels 7; Gaps 2;
QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTFSYSMHWVRGPGKLEWVSSISNSNT 60
Db 14 EVOL----VESGGGLVPGGSLRLSCAASGFTFSYMSVIRQAPKGLEWVAVIRKODS 69
QY 61 YYYADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVRSQMDV 120
Db 70 EKYADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCAKDEGEGWGLYIY--GMDV 126
QY 121 WGQGTIVVSS 131
Db 127 WGQGTIVVSS 137

RESULT 14

S31108
Ig heavy chain - human
C:Species: Homo sapiens (man)
C:Date: 02-Dec-1993 #sequence_revision 26-May-1995 #text_change 17-Mar-1999
C:Accession: S31108
R:Raaphorst, F.M.; Timmers, E.; Kenter, M.J.H.; van Tol, M.J.D.; Vossen, J.M.; Schuur
Eur. J. Immunol. 22, 247-251, 1992
A:Title: Restricted utilization of germ-line V(H)3 genes and short diverse third comp
A:Reference number: S31104; MUID:92111633; PMID:1730252

A:Accession: S31108
A>Status: preliminary: nucleic acid sequence not shown; translation not shown
A:Molecule type: mRNA
A:Residues: 1-119 <RAA>
A:Cross-references: EMBL:X62956
A>Note: the nucleotide sequence was submitted to the EMBL Data Library, October 1991
C:Superfamily: Immunoglobulin V region; Immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 68.1%; Score 469; DB 2; Length 119;
Best Local Similarity 72.5%; Pred. No. 5e-35;
Matches 95; Conservative 8; Mismatches 16; Indels 12; Gaps 2;

OY 1 EVQLLESGVSGGGLVPRGSGRLSCAASGFTFSYSMHWYRQPGKLEWYSISNSNT 60
DB 1 EVQLL-----ESGGGVQPGGSLRLSCAASGFTFSYSMHWYRQPGKLEWYSISGSG 56
OY 61 YIYVADAVKGRFTISRDNKNSLYLQMNSLRAEDTAIVYYCARDSRYSNFLRWVRSDGMDV 120
DB 57 STYYADSVKGRFTISRDNKNSLYLQMNSLRAEDTAIVYYCAKDRRLTG-----TFDY 108
OY 121 WGCGTFTVYSS 131
DB 109 WGCGTFTVYSS 119

RESULT 15

S48797
Ig heavy chain V region (anti-Sm, VH3/Dxp4/JH6) - human (fragment)

C:Species: Homo sapiens (man)
C:Date: 13-Jan-1995 #sequence_revision 13-Sep-1998 #text_change 23-Jul-1999

C:Accession: S48797; S26893
R:Mahmoudi, M.; Edwards, J.; Cairns, E.; Bell, D.

submitted to the EMBL Data Library, October 1994

A:Description: Molecular characterization of natural human anti-Sm autoantibodies.

A:Reference number: S48797

A:Accession: S48797
A:Molecule type: mRNA

A:Residues: 1-128 <MAH>
A:Cross-references: EMBL:Z46379; NID:G587147; PIDN:CA86512.1; PID:G1340168

R:Tomlinson, I.M.; Walter, G.; Marks, J.D.; Llewellyn, M.B.; Winter, G.
J. Mol. Biol. 227, 776-798, 1992

A:Title: The repertoire of human germline V(H) sequences reveals about fifty groups of V

A:Reference number: S26885; MUID:93021117; PMID:1404388

A:Accession: S26893
A:Molecule type: DNA

A:Residues: 1-98 <TOM>
A:Cross-references: EMBL:Z12350; NID:G32922; PIDN:CAA78220.1; PID:G32923

C:Superfamily: Immunoglobulin V region; Immunoglobulin homology
C:Keywords: heterotetramer; immunoglobulin
F:15-98/Domain: immunoglobulin homology <IMM>

Query Match 68.0%; Score 468.5; DB 2; Length 128;
Best Local Similarity 71.6%; Pred. No. 6e-35;
Matches 96; Conservative 11; Mismatches 18; Indels 9; Gaps 3;

OY 1 EVQLLESGVSGGGLVPRGSGRLSCAASGFTFSYSMHWYRQPGKLEWYSISNSNT 60
DB 1 OVQL-----VESGGGVQPGGSLRLSCAASGFTFSYGMHWYRQPGKLEWYAVIWDGS 56
OY 61 YIYVADAVKGRFTISRDNKNSLYLQMNSLRAEDTAIVYYCARDSRY---SNFLRWVRSDG 117
DB 57 NKYYADSVKGRFTISRDNKNSLYLQMNSLRAEDTAIVYYCARDNYIYDSSGYYYYY--G 114
OY 118 MDVWGCGTFTVYSS 131
DB 115 MDVWGCGTFTVYSS 128

Search completed: September 24, 2003, 06:29:48
Job time : 40 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 24, 2003, 04:44:09 ; Search time 33 Seconds
(without alignments)
186.682 Million cell updates/sec

Title: US-09-848-798A-28
Perfect score: 689
Sequence: 1 EVQLLESGVESGGLVLRPG.....WVRSDGMDVMGQTTIVSS 131

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues
Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SwissProt.41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	432.5	62.8	136	1	HY16_MOUSE
2	429.5	62.3	122	1	HY3G_HUMAN
3	424.5	61.6	114	1	HY3B_HUMAN
4	419	60.8	117	1	HY3C_HUMAN
5	407.5	59.1	122	1	HY3H_HUMAN
6	407.5	59.1	126	1	HY3K_HUMAN
7	406.5	59.0	122	1	HY3A_HUMAN
8	404	58.6	121	1	HY3J_HUMAN
9	402	58.3	120	1	HY3E_HUMAN
10	400	58.1	115	1	HY3F_HUMAN
11	397.5	57.7	116	1	HY3T_HUMAN
12	395	57.3	98	1	HY57_MOUSE
13	391.5	56.8	119	1	HY3L_MOUSE
14	391	56.7	119	1	HY3I_HUMAN
15	390	56.6	117	1	HY02_CANFA
16	389.5	56.5	114	1	HY01_CANFA
17	389.5	56.5	120	1	HY3U_HUMAN
18	388	56.3	123	1	HY22_MOUSE
19	388	56.3	123	1	HY24_MOUSE
20	386.5	56.1	116	1	HY05_CARAU
21	386	56.0	116	1	HY3D_HUMAN
22	384	55.7	123	1	HY23_MOUSE
23	383	55.6	123	1	HY18_MOUSE
24	383	55.6	123	1	HY25_MOUSE
25	381	55.3	116	1	HY3R_HUMAN
26	380.5	55.2	111	1	HY3S_MOUSE
27	380	55.2	117	1	HY54_MOUSE
28	380	55.2	117	1	HY59_MOUSE
29	380	55.2	123	1	HY19_MOUSE
30	378	54.8	144	1	HY26_MOUSE
31	377.5	54.8	97	1	HY56_MOUSE
32	377	54.7	117	1	HY52_MOUSE
33	376.5	54.6	122	1	HY21_MOUSE

34	375	54.4	115	1	HY32_MOUSE	P01801 mus musculus
35	373	54.1	113	1	HY30_MOUSE	P01799 mus musculus
36	373	54.1	117	1	HY58_MOUSE	P18529 mus musculus
37	372.5	54.1	122	1	HY20_MOUSE	P01789 mus musculus
38	371.5	53.9	117	1	HY3Q_HUMAN	P01776 homo sapien
39	371.5	53.9	119	1	HY3M_HUMAN	P01774 homo sapien
40	370.5	53.8	119	1	HY3N_HUMAN	P01811 mus musculus
41	370	53.7	117	1	HY41_MOUSE	P01815 mus musculus
42	369.5	53.6	119	1	HY37_MOUSE	P01810 mus musculus
43	367.5	53.3	119	1	HY40_MOUSE	P01809 mus musculus
44	367	53.3	118	1	HY39_MOUSE	P01809 mus musculus
45	366	53.1	113	1	HY27_MOUSE	P01796 mus musculus

ALIGNMENTS

RESULT 1						
HY16_MOUSE						
ID	HY16_MOUSE	STANDARD:	PRT:	136 AA.		
AC	P01783:					
DT	21-JUL-1986 (Rel. 01, Created)					
DT	21-JUL-1986 (Rel. 01, Last sequence update)					
DT	15-SEP-2003 (Rel. 42, Last annotation update)					
DE	Ig heavy chain V region MOPC 21 precursor (Fragment).					
OS	Mus musculus (Mouse).					
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;					
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.					
OX	NCBI_TaxId=10090;					
RN	[1]					
RP	SEQUENCE FROM N.A.					
RX	MEDLINE=81234548; PubMed=6788376;					
RA	Botwell A.L.M., Paskind M., Reth M., Imanishi-Kari T., Rajewsky K.,					
RA	Baltimore D.,					
RT	"Heavy chain variable region contribution to the Npb family of					
RT	antibodies: somatic mutation evident in a gamma 2a variable region.";					
RL	Cell 24:625-637(1981).					
RM	[2]					
RP	SEQUENCE OF 17-136.					
RX	MEDLINE=77100368; PubMed=401950;					
RA	Adelungo K., Milstein C., Secher D.S.;					
RT	"Molecular analysis of spontaneous somatic mutants.";					
RL	Nature 265:299-304(1977).					
CC	-----					
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration					
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CC	-----					
CC	EMBL: J00522; A015290.1; -					
DR	PIR: E90809; GIMS21.					
DR	PDB: 1IGC; 03-JUN-95.					
DR	InterPro: IPR007110; Ig-like.					
DR	InterPro: IPR003006; Ig_MHC.					
DR	InterPro: IPR003596; Ig-V.					
DR	Pfam: PF00047; Ig_1.					
DR	SMART: SM00406; IGV; 1.					
DR	PROSITE: PS00835; IG_LIKE; 1.					
KW	Immunoglobulin V region; Signal; 3D-structure.					
FT	NON_TER	1				
FT	SIGNAL	<1				
FT	CHAIN	17	136			
FT	DOMAIN	115	119			
FT	DOMAIN	120	136			
FT	DISULFID	38	112			
FT	CONFLICT	75	78			
FT	CONFLICT	89	90			
FT	CONFLICT	115	115			
FT	CONFLICT	120	120			
FT	NON_TER	136	136			

SQ SEQUENCE 136 AA; 15071 MW; 2276A98DBDF7016 CRC64;

Query Match 62.8%; Score 432.5; DB 1; Length 136;
Best Local Similarity 64.9%; Pred. No. 4.2e-36;
Matches 85; Conservative 16; Mismatches 19; Indels 11; Gaps 2;

QY 1 EVOLLESGVSGGGLVKGPGSLRLSCASGFTFSYSMHVNRGPGKGLWVSSISNSNT 60
DB 17 DVQL-----VESGGGLVQPGGSKRLSCASGFTFSFGMHVNRQAEKGLWVAIYSSGS 72
QY 61 YIYADAVKGRFTISRDNKNSLYLQMSLRABHTAVYCCARDSRYSNPLRWVSDGMDV 120
DB 73 TLHVDYKGRFTISRDNKNTLELQMTLSLRSDYADYACARWGNVPY-----AMDY 125
QY 121 WGQGTIVYSS 131
DB 126 WGQGTIVYSS 136

RESULT 2

HY3G_HUMAN STANDARD; PRT: 122 AA.

ID HV3G_HUMAN
AC P01768;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Ig heavy chain V-II region CAM.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP MEDLINE=81013859; Pubmed=6774332;
RA Lehman D.W., Putnam F.W.;
RT "Amino acid sequence of the variable region of a human mu chain:
RT location of a possible JH segment."
RL Proc. Natl. Acad. Sci. U.S.A. 77:3239-3243(1980).
CC -1- MISCELLANEOUS: THIS MU CHAIN WAS ISOLATED FROM THE PLASMA OF A
CC PATIENT WITH MACROGLOBULINEMIA.
CC -1- SIMILARITY: Contains 1 immunoglobulin-like domain.
DR HSP: A02051; M3HUM.
DR HSP: P01772; 2F84.
DR GO: GO:0005576; C:extracellular; NAS.
DR GO: GO:0003823; F:antigen binding activity; NAS.
DR GO: GO:0006955; P:immune response; NAS.
DR InterPro: IPR007110; Ig_Like.
DR InterPro: IPR003596; Ig_V.
DR Pfam: PF00047; IgV_1.
DR SMART: SM00406; IGV_1.
DR PROSITE: PS50835; IG_LIKE; 1.
KW Immunoglobulin V region; Pyrolydione carboxylic acid.
FT DOMAIN 1 112
FT MOD_RES 1 122
FT NON_TER 1 122
SQ SEQUENCE 122 AA; 13668 MW; A42D0F17D252F1C2 CRC64;

Query Match 62.3%; Score 429.5; DB 1; Length 122;
Best Local Similarity 67.7%; Pred. No. 7.3e-36;
Matches 84; Conservative 14; Mismatches 19; Indels 7; Gaps 2;

QY 9 VESGGGLVKGPGSLRLSCASGFTFSYSMHVNRGPGKGLWVSSISNSNTYIYADAV 68
DB 5 VESGGGLVKGPGSLRLSCASGFTFSYSMHVNRGPGKGLWVAVISYGBBKRYABSV 64
QY 69 KGRFTISRDNKNSLYLQMSLRABHTAVYCCARD-SRYSNPLRWVSDGMDVWGQGTIV 127
DB 65 KGRFTISRDNKNSLYLQMSLRABHTAVYCCARDRIYGBY-----RAFNWYGQGTIV 118
QY 128 IVSS 131
DB 119 IVSS 122

RESULT 3
HY3B_HUMAN STANDARD; PRT: 114 AA.

ID HV3B_HUMAN
AC P01763;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Ig heavy chain V-II region WEA.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP MEDLINE=83273707; Pubmed=6410398;
RA Goni F., Frangione B.;
RT "Amino acid sequence of the Fv region of a human monoclonal IgM
RT (protein WEA) with antibody activity against 3,4-pyruvylated
RT galactose in Klebsiella polysaccharides K30 and K33."
RL Proc. Natl. Acad. Sci. U.S.A. 80:4837-4841(1983).
CC -1- MISCELLANEOUS: THIS CHAIN WAS OBTAINED FROM A MONOCLONAL ANTIBODY
CC AGAINST 3,4-PYRUVYLATED GALACTOSE AND ISOLATED FROM A PATIENT WITH
CC MADDENSTROM'S MACROGLOBULINEMIA.
CC -1- SIMILARITY: Contains 1 immunoglobulin-like domain.
DR HSP: A02046; M3HOM.
DR HSP: P01772; 2F84.
DR GO: GO:0005576; C:extracellular; NAS.
DR GO: GO:0003823; F:antigen binding activity; NAS.
DR GO: GO:0006955; P:immune response; NAS.
DR InterPro: IPR007110; Ig_Like.
DR InterPro: IPR003596; Ig_V.
DR Pfam: PF00047; IGV_1.
DR SMART: SM00406; IGV_1.
DR PROSITE: PS50835; IG_LIKE; 1.
KW Immunoglobulin V region; Pyrolydione carboxylic acid.
FT DOMAIN 1 112
FT MOD_RES 1 114
FT NON_TER 1 114
SQ SEQUENCE 114 AA; 12256 MW; D88294F8A18A07B7 CRC64;

Query Match 61.6%; Score 424.5; DB 1; Length 114;
Best Local Similarity 65.6%; Pred. No. 2.1e-35;
Matches 86; Conservative 15; Mismatches 13; Indels 17; Gaps 3;

QY 1 EVOLLESGVSGGGLVKGPGSLRLSCASGFTFSYSMHVNRGPGKGLWVSSISNSNT 60
DB 1 QVQL---VDSSGGLVQPGGSKRLSCASGFTFSNDMNWVROAPGKGLWLSFGISGS 56
QY 61 YIYADAVKGRFTISRDNKNSLYLQMSLRABHTAVYCCARDSRYSNPLRWVSDGMDV 120
DB 57 TIYADSVKGRFTISRDNKNSLYLQMSLRABHTAVYCCARG-----WLLN----- 103
QY 121 WGQGTIVYSS 131
DB 104 WGQGTIVYSS 114

RESULT 4
HY3C_HUMAN STANDARD; PRT: 117 AA.

ID HV3C_HUMAN
AC P01764;
DT 21-JUL-1986 (Rel. 01, Created)
DT 21-JUL-1986 (Rel. 01, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Ig heavy chain V-II region VH26 precursor.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_Taxid=9606;
RN [1]

FT DOMAIN 1 112 IG-LIKE.
 FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT DISULFID 22 96
 FT DISULFID 105 110
 FT STRAND 3 7
 FT STRAND 11 12
 FT TURN 14 15
 FT STRAND 18 25
 FT HELIX 29 31
 FT STRAND 34 39
 FT TURN 41 42
 FT STRAND 45 51
 FT TURN 53 54
 FT STRAND 58 60
 FT HELIX 62 64
 FT STRAND 65 65
 FT TURN 66 67
 FT STRAND 74 77
 FT TURN 78 83
 FT HELIX 88 90
 FT STRAND 92 99
 FT STRAND 106 106
 FT TURN 107 108
 FT STRAND 109 109
 FT STRAND 113 116
 FT STRAND 120 124
 FT NON_TER 125 126
 SO SEQUENCE 126 AA; 13718 MW; E4D71B52B16F8776 CRC64;

Query Match 59.1%; Score 407.5; DB 1; Length 126;
 Best Local Similarity 62.6%; Pred. No. 1.2e-33;
 Matches 82; Conservative 18; Mismatches 26; Indels 5; Gaps 2;

OY 1 EVOLLESGVGGGLVPGGSLRLSCAASGFTSSYSMMHWQPGKGLRWVSSISNSNT 60
 DB 1 QVOL---VSGGGVPGGSLRLSCSSSGFTSSYSMMHWQPGKGLRWVSSISNSNT 56
 OY 61 YIYVADAVKGRFTISRDNAKNSLYLQNSLRAEHTAVYCA--RDSRYSNFLRWVRSDCM 120
 DB 57 DQHYADSVKGRFTISRDNAKNSLYLQNSLRAEHTAVYCA--RDSRYSNFLRWVRSDCM 115
 OY 121 WGGGTIVYSS 131
 DB 116 WGGGTIVYSS 126

RESULT 7
 HV3J_HUMAN STANDARD; PRT; 122 AA.
 ID P01762;
 AC 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE 19 heavy chain V-III region TRO.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE (MYELOMA PROTEIN TRO).
 RX MEDLINE=76023781; PubMed=809331;
 RA Kristin H., Altevogt P., Ruban E., Kortt A., Starescik K.,
 RA Hilschmann N.;
 RT "The primary structure of a monoclonal IgA-immunoglobulin (IgA.Tro.),
 RT II. The amino acid sequence of the H-chain, alpha-type, subgroup, III;
 RT structure of the complete IgA molecule."
 RL Hoppe-Seyler's Z. Physiol. Chem. 356:1337-1342(1975).
 CC -1- MISCELLANEOUS: THE SEQUENCE OF THE C REGION IS ALSO GIVEN.
 CC PIR: A02045; A1HUTR.
 DR HSSP: P01772; 2FB4.
 GO: GO:0005576; C:extracellular; NAS.

DR GO: GO:0003823; F:antigen binding activity; NAS.
 DR GO: GO:0006955; P:immune response; NAS.
 DR InterPro: IPR007110; IG-LIKE.
 DR InterPro: IPR003006; IG-MHC.
 DR InterPro: IPR003596; IG-V.
 DR Pfam: PF00047; Ig_1.
 DR SMART: SM00406; IGV_1.
 DR PROSITE: PS50835; IG-LIKE; 1.
 KW Immunoglobulin V region; Pyrrolidone carboxylic acid.
 FT DOMAIN 1 108
 FT MOD_RES 1 1
 FT NON_TER 122 122
 SO SEQUENCE 122 AA; 13472 MW; 2E21A1DA04D80F9 CRC64;

Query Match 59.0%; Score 406.5; DB 1; Length 122;
 Best Local Similarity 58.6%; Pred. No. 1.4e-33;
 Matches 78; Conservative 19; Mismatches 23; Indels 13; Gaps 3;

OY 1 EVOLLESGVGGGLVPGGSLRLSCAASGFTSSYSMMHWQPGKGLRWVSSISNSNT 60
 DB 1 QVOL---VSGGGVPGGSLRLSCSSSGFTSSYSMMHWQPGKGLRWVSSISNSNT 56
 OY 61 YIYVADAVKGRFTISRDNAKNSLYLQNSLRAEHTAVYCA--RDSRYSNFLRWVRSDCM 118
 DB 57 TLVYADSVKGRFTISRDNAKNSLYLQNSLRAEHTAVYCA--RDSRYSNFLRWVRSDCM 109
 OY 119 DWGGGTIVYSS 131
 DB 110 BYWGGGTIVYSS 122

RESULT 8
 HV3J_HUMAN STANDARD; PRT; 121 AA.
 ID P01771;
 AC 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE 19 heavy chain V-III region HIL.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=79124695; PubMed=420800;
 RA Chiu Y.-Y. H., Lopez de Castro J.A., Poljak R.J.;
 RT "Amino acid sequence of the VH region of human myeloma
 RT cryoimmunoglobulin IgG H1.1".
 RL Biochemistry 18:553-560(1979).
 CC -1- MISCELLANEOUS: THIS CHAIN WAS ISOLATED FROM AN IGG1 MYELOMA
 CC PROTEIN.
 CC -1- SIMILARITY: Contains 1 immunoglobulin-like domain.
 DR PIR: A02054; G1HHL.
 DR HSSP: P01772; 2FB4.
 DR GO: GO:0005576; C:extracellular; NAS.
 DR GO: GO:0003823; F:antigen binding activity; NAS.
 DR GO: GO:0006955; P:immune response; NAS.
 DR InterPro: IPR007110; IG-LIKE.
 DR InterPro: IPR003006; IG-MHC.
 DR InterPro: IPR003596; IG-V.
 DR Pfam: PF00047; Ig_1.
 DR SMART: SM00406; IGV_1.
 DR PROSITE: PS50835; IG-LIKE; 1.
 KW Immunoglobulin V region; Pyrrolidone carboxylic acid.
 FT DOMAIN 1 112
 FT MOD_RES 1 1
 FT NON_TER 121 121
 SO SEQUENCE 121 AA; 13566 MW; 480FC3610EF5DAB CRC64;

Query Match 58.6%; Score 404; DB 1; Length 121;
 Best Local Similarity 62.6%; Pred. No. 2.5e-33;
 Matches 77; Conservative 15; Mismatches 25; Indels 6; Gaps 1;

QY 9 VESGGGLVKGPGSLRLSCAASGFTFSYSMHWVRQPGKGLKLEWVSSISNSNTIYYADAV 68
 DB 5 VOAGGGVQPGKSLRLSCIASGFTFSNGMHVRAQPGKLEWAVIYNGSRITYGGSV 64
 QY 69 KGRFTISDNKNSLYLQMSLRAEHTAVYYCARDRSYNFLRWVSDGMVGGCTTVI 128
 DB 65 KGRFTISDNKNSLYLQMSLRAEHTAVYYCARDPDI-----LTAFSPYWGQGLVLT 118
 QY 129 VSS 131
 DB 119 VSS 121

RESULT 9

HV3E_HUMAN STANDARD: PRT; 120 AA.
 ID HV3E_HUMAN
 AC P01766;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Ig heavy chain V-II region BRO.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OX NCBI_TaxId=9606;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=71117674; PubMed=65324;
 RA Capra J.D., Hopper J.E.;
 RT "Comparative studies on monocytic IgM lambda and IgG kappa from an
 RT individual patient. III. The complete amino acid sequence of the VH
 RT region of the IgM paraprotein.";
 RL Immunohematology 13:995-999(1976).
 CC -I- MISCELLANEOUS: THIS CHAIN WAS OBTAINED FROM IGM ISOLATED FROM THE
 CC SERUM OF A PATIENT WITH MALIGNANT LYMPHOMA OF THE WALDENSTROM
 CC TYPE.
 CC -I- SIMILARITY: Contains 1 immunoglobulin-like domain.
 CC PIR: A02049; M3HUBW.
 DR HSSP: P01772; 2PBA.
 DR GO: GO:0005576; C:extracellular; NAS.
 DR GO: GO:0003823; F:antigen binding activity; NAS.
 DR GO: GO:0006955; P:immune response; NAS.
 DR InterPro: IPR007110; Ig-like.
 DR InterPro: IPR003006; Ig_MHC.
 DR InterPro: IPR003596; Ig_V.
 DR Pfam: PF00047; Ig; 1.
 DR SMART: SM00406; IGV; 1.
 DR PROSITE: PS50835; IG-LIKE; 1.
 KW Immunoglobulin V region.
 FT DOMAIN 1 111
 FT NON_TER 120 120 IG-LIKE.
 SQ SEQUENCE 120 AA; 13227 MW; D3F0428F7C2E6410 CRC64;

Query Match 58.3%; Score 402; DB 1; Length 120;
 Best Local Similarity 68.8%; Pred. No. 3.8e-33;
 Matches 86; Conservative 11; Mismatches 22; Indels 6; Gaps 3;

QY 1 EVLLSGVESGGGLVKGPGSLRLSCAASGFTFSYSMHWVRQPGKGLKLEWVSSISNSNT 60
 DB 1 EVLLSGVESGGGLVKGPGSLRLSCAASGFTFSYSMHWVRQPGKGLKLEWVSSISNSNT 60
 QY 61 YIYADAVKGRFTISDNKNSLYLQMSLRAEHTAVYYCARDRSYNFLRWVSDGMV 120
 DB 57 O-YIYADSVKGRFTISDNKNSLYLQMSLRAEHTAVYYCAR-SFVSLVDMGLYGGV 114

QY 121 WGQGT 125
 DB 115 WGQGT 119

RESULT 10
 HV3F_HUMAN

ID HV3F_HUMAN STANDARD: PRT; 115 AA.
 AC P01767;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Ig heavy chain V-II region BRO.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OX NCBI_TaxId=9606;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=78137069; PubMed=416441;
 RA Torano A., Putnam F.W.;
 RT "Complete amino acid sequence of the alpha 2 heavy chain of a human
 RT IgA2 immunoglobulin of the A2m (2) allotype.";
 RL Proc. Natl. Acad. Sci. U.S.A. 75:966-969(1978).
 CC -I- MISCELLANEOUS: THE SEQUENCE OF THE ALPHA-2, A2M(2) ALLOTYPE, C
 CC REGION OF THIS MYELOMA PROTEIN IS ALSO GIVEN.
 CC -I- SIMILARITY: Contains 1 immunoglobulin-like domain.
 CC PIR: A02050; A2HUBU.
 DR HSSP: P01789; 1MCP.
 DR GO: GO:0005576; C:extracellular; NAS.
 DR GO: GO:0003823; F:antigen binding activity; NAS.
 DR GO: GO:0006955; P:immune response; NAS.
 DR InterPro: IPR007110; Ig-like.
 DR InterPro: IPR003006; Ig_MHC.
 DR InterPro: IPR003596; Ig_V.
 DR Pfam: PF00047; Ig; 1.
 DR SMART: SM00406; IGV; 1.
 DR PROSITE: PS50835; IG-LIKE; 1.
 KW Immunoglobulin V region.
 FT DOMAIN 1 111
 FT NON_TER 115 115 IG-LIKE.
 SQ SEQUENCE 115 AA; 12379 MW; 208876A7DF52DCF4 CRC64;

Query Match 58.1%; Score 400; DB 1; Length 115;
 Best Local Similarity 61.8%; Pred. No. 5.8e-33;
 Matches 81; Conservative 18; Mismatches 16; Indels 16; Gaps 3;

QY 1 EVLLSGVESGGGLVKGPGSLRLSCAASGFTFSYSMHWVRQPGKGLKLEWVSSISNSNT 60
 DB 1 EVLLSGVESGGGLVKGPGSLRLSCAASGFTFSYSMHWVRQPGKGLKLEWVSSISNSNT 60
 QY 61 YIYADAVKGRFTISDNKNSLYLQMSLRAEHTAVYYCARDRSYNFLRWVSDGMV 120
 DB 57 -TYIYADSVKGRFTISDNKNSLYLQMSLRAEHTAVYYCARDLAAR-----L 104
 QY 121 WGQGTIVSS 131
 DB 105 FGKGTIVSS 115

RESULT 11

HV3T_HUMAN STANDARD: PRT; 116 AA.
 ID HV3T_HUMAN
 AC P01781;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Ig heavy chain V-II region GAL.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OX NCBI_TaxId=9606;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=75059123; PubMed=4803843;
 RA Watanabe S., Barnikol H.U., Horn J., Berram J., Hilschmann N.;
 RT "The primary structure of a monoclonal IgM-immunoglobulin
 RT (macroglobulin Gal.), II: the amino acid sequence of the H-chain (mu-
 RT type), subgroup H III. Architecture of the complete IgM-molecule.";
 RL Hope-Seyler's Z. Physiol. Chem. 354:1505-1509(1973).

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RN [2]
RP REVISION TO 28-33.
RA Hilschmann N.:
RL Submitted (JUN-1975) to the PIR data bank.
CC -1- MISCELLANEOUS: THIS MU CHAIN WAS ISOLATED FROM A WALDENSTROM'S
CC MACROGLOBULIN.
CC -1- SIMILARITY: Contains 1 immunoglobulin-like domain.
DR PIR: A02064; M3HGL.
DR HSSP: P01772; 2PB4.
DR GO: GO:0005576; C:extracellular; NAS.
DR GO: GO:0003823; F:antigen binding activity; NAS.
DR GO: GO:0006955; P:immune response; NAS.
DR InterPro: IPR007110; Ig-Like.
DR InterPro: IPR003006; Ig-MHC.
DR InterPro: IPR003596; Ig-V.
DR Pfam: PF00047; Ig: 1.
DR SMART: SM00406; Ig: 1.
DR PROSITE: PS50835; IG-LIKE; 1.
DR Immunoglobulin V region.
FT DOMAIN 1
FT NON_TER 116
SQ SEQUENCE 116 AA; 12730 MW; 2C67CA9AAAAA1282 CRC64;

Query Match
Best Local Similarity 57.3%; Score 397.5; DB 1; Length 116;
Matches 84; Conservative 7; Mismatches 25; Indels 15; Gaps 3;

OY 1 EVOLLESGVSGGGLVPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSSISNSNT 60
DB 1 EVOL- - - - - VESGGDLVOPGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSSISNSNT 56
OY 61 YIYVADAVKGRFTISRDNANKNSLYLQNSLRAEHTAVYTCARSDRYSNFLRWVRSDGMV 120
DB 57 ZBYVDVSKGRFTISRDNANKNSLYLQNSLRAEHTAVYTCARSDRYSNFLRWVRSDGMV 105
OY 121 WCGAGTVTVSS 131
DB 106 WCGAGTVTVST 116

RESULT 12
HV37_MOUSE STANDARD; PRT; 98 AA.
ID HV37_MOUSE
AC P18528;
DR 01-NOV-1990 (Rel. 16, Created)
DR 01-NOV-1990 (Rel. 16, Last sequence update)
DR 15-SEP-2003 (Rel. 42, Last annotation update)
DE Ig heavy chain V region 6.96.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RN SEQUENCE FROM N.A.
RC STRAIN-BALB/CJ;
RC MEDLINE=89279149; PubMed=2499654;
RA Levy N.S., Malipiero U.V., Lebecque S.G., Gearhart P.J.;
RT "Early onset of somatic mutation in immunoglobulin VH genes during
RT the primary immune response."
J. Exp. Med. 169:2007-2019(1989).
CC -1- MISCELLANEOUS: THIS SEQUENCE BELONGS TO THE VH7183 SUBFAMILY.
CC -1- SIMILARITY: Contains 1 immunoglobulin-like domain.
DR PIR: J05051; HVMS96.
DR HSSP: P01772; 2PB4.
DR InterPro: IPR007110; Ig-Like.
DR InterPro: IPR003006; Ig-MHC.
DR InterPro: IPR003596; Ig-V.
DR Pfam: PF00047; Ig: 1.
DR SMART: SM00406; Ig: 1.
DR PROSITE: PS50835; IG-LIKE; 1.
DR Immunoglobulin V region.
FT DOMAIN 1
FT NON_TER 98
SQ SEQUENCE 98 AA; 10730 MW; 1C67CA9AAAAA1282 CRC64;
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SQ SEQUENCE 98 AA; 11007 MW; B8644F7F92FBF95B CRC64;

Query Match
Best Local Similarity 57.3%; Score 395; DB 1; Length 98;
Matches 76; Conservative 12; Mismatches 10; Indels 4; Gaps 1;

OY 1 EVOLLESGVSGGGLVPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSSISNSNT 60
DB 1 EVOL- - - - - VESGGDLVOPGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSSISNSNT 56
OY 61 YIYVADAVKGRFTISRDNANKNSLYLQNSLRAEHTAVYTCARSDRYSNFLRWVRSDGMV 120
DB 57 ZBYVDVSKGRFTISRDNANKNSLYLQNSLRAEHTAVYTCARSDRYSNFLRWVRSDGMV 105
OY 121 WCGAGTVTVSS 131
DB 106 WCGAGTVTVST 118

RESULT 13
HV38_MOUSE STANDARD; PRT; 119 AA.
ID HV38_MOUSE
AC P01808;
DR 21-JUN-1986 (Rel. 01, Created)
DR 21-JUN-1986 (Rel. 01, Last sequence update)
DR 15-SEP-2003 (Rel. 42, Last annotation update)
DE Ig heavy chain V region 1601.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RN SEQUENCE
RC MEDLINE=7923895; PubMed=111245;
RA Rao D.N., Rudikoff S., Kruttsch H., Potter M.;
RT "Structural evidence for independent joining region gene in
RT immunoglobulin heavy chains from anti-lactican myeloma proteins and
RT its potential role in generating diversity in
RT complementarity determining regions."
Proc. Natl. Acad. Sci. U.S.A. 76:2890-2894(1979).
CC -1- MISCELLANEOUS: THIS CHAIN WAS ISOLATED FROM AN IGA MYELOMA PROTEIN
CC -1- SIMILARITY: Contains 1 immunoglobulin-like domain.
DR PIR: A02078; AVM816.
DR HSSP: P01810; 2PB4.
DR InterPro: IPR007110; Ig-Like.
DR InterPro: IPR003006; Ig-MHC.
DR InterPro: IPR003596; Ig-V.
DR Pfam: PF00047; Ig: 1.
DR SMART: SM00406; Ig: 1.
DR PROSITE: PS50835; IG-LIKE; 1.
DR Immunoglobulin V region.
FT DOMAIN 1
FT NON_TER 119
SQ SEQUENCE 119 AA; 13169 MW; BC38CC84EEA00E8 CRC64;

Query Match
Best Local Similarity 56.8%; Score 391.5; DB 1; Length 119;
Matches 79; Conservative 15; Mismatches 24; Indels 13; Gaps 2;

OY 1 EVOLLESGVSGGGLVPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSSISNSNT 60
DB 1 EVOL- - - - - BSGGDLVOPGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSSISNSNT 56
OY 61 YIYVADAVKGRFTISRDNANKNSLYLQNSLRAEHTAVYTCARSDRYSNFLRWVRSDGMV 120
DB 57 TINTPDLKGRFTISRDNANKNSLYLQNSLRAEHTAVYTCARSDRYSNFLRWVRSDGMV 107
OY 121 WCGAGTVTVSS 131
DB 108 WCGAGTVTVST 118

RESULT 14
HV31_HUMAN STANDARD; PRT; 119 AA.
ID HV31_HUMAN
AC P01770;
```

DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Ig heavy chain V-III region NIE.
 OS Homo sapiens (Human).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=77070269; PubMed=826475;
 RA Ponslingl H., Hilschmann N.;
 RT "The rule of antibody structure. The primary structure of a
 RT monoclonal IgG1 immunoglobulin (myeloma protein Nle). III. The
 RT chymotryptic peptides of the H-chain, alignment of the tryptic
 RT peptides and discussion of the complete structure."
 RL Hoppe-Seyler's Z. Physiol. Chem. 357:1571-1604(1976).
 RN [2]
 RP DISULFIDE BOND.
 RX MEDLINE=77070267; PubMed=1002129;
 RA Dreker L., Schwarz J., Reichel W., Hilschmann N.;
 RT "Rule of antibody structure. The primary structure of a monoclonal
 RT IgG1 immunoglobulin (myeloma protein Nle). I: Purification and
 RT characterization of the protein, the L- and H-chains, the
 RT cyanogen bromide cleavage products, and the disulfide bridges."
 RL Hoppe-Seyler's Z. Physiol. Chem. 357:1515-1540(1976).
 CC -I- MISCELLANEOUS: THIS CHAIN WAS ISOLATED FROM AN IGG1 MYELOMA
 CC PROTEIN.
 CC -I- SIMILARITY: Contains 1 immunoglobulin-like domain.
 DR PIR: A91668; GIHUNI.
 DR HSSP: P01772; 2FB4.
 DR GO: GO:0005576; C:extracellular; NAS.
 DR GO: GO:0003823; F:antigen binding activity; NAS.
 DR GO: GO:0006955; P:immune response; NAS.
 DR InterPro: IPR007110; Ig-like.
 DR InterPro: IPR003006; Ig_MHC.
 DR InterPro: IPR003596; Ig_V.
 DR Pfam: PF00047; Ig; 1.
 DR SMART: SM00406; IgV; 1.
 DR SMART: PS50835; IG-LIKE; 1.
 KW Immunoglobulin V region; Pyritolone carboxylic acid.
 FT DOMAIN 1 112 IG-LIKE.
 FT MOD_RES 1 1 PYRROLIDONE CARBOXYLIC ACID.
 FT DISULFID 22 96
 FT NON_TER 119 119
 FT SEQUENCE 119 AA; 13242 MW; C96935A6E55E165B CRC64;
 Query Match 56.7%; Score 391; DB 1; Length 119;
 Best Local Similarity 60.9%; Pred. No. 4.7e-32;
 Matches 81; Conservative 15; Mismatches 21; Indels 16; Gaps 3;
 QY 1 EVOLLESGVESGGGLVPRGGSRLRLSCAASGFTFSYSMMHWYRQPGKGLEWVSISNSNT 60
 DB 1 QVQL---VQSGGVSVPGRSLRLSCAASGFTFSRYYTIHWYRQAPGKLEWVAWVSXGCB 56
 QY 61 YIYADAVKGRFTISRDNKAKSLYLQMSLAEHTAVYVCARDSRYSFLWVSDGMDV 120
 DB 57 BKHTADSYNGRFTISRDNKAKSLYLQMSLAEHTAVYVCARDSRYSFLWVSDGMDV 120
 QY 121 --WGQGTIVIVSS 131
 DB 107 AHMGQGLTVIVSS 119
 RESULT 15
 ID HV02_CANFA STANDARD; PRT; 117 AA.
 AC P01785;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Ig heavy chain V region MOO.
 OS Canis familiaris (Dog).

CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 NCBI_TaxID=9615;
 RN [1]
 RP SEQUENCE OF 1-112.
 RX MEDLINE=77242268; PubMed=407924;
 RA Wasserman R.L., Capra J.D.;
 RT "Primary structure of the variable regions of two canine
 RT immunoglobulin heavy chains."
 RL Biochemistry 16:3160-3168(1977).
 RN [2]
 RP SEQUENCE OF 113-117.
 RX MEDLINE=80077682; PubMed=117239;
 RA McCumber L.J., Capra J.D.;
 RT "The complete amino-acid sequence of a canine mu chain."
 RL Mol. Immunol. 16:565-570(1979).
 CC -I- MISCELLANEOUS: THIS MU CHAIN WAS ISOLATED FROM A MYELOMA PROTEIN.
 CC -I- SIMILARITY: Contains 1 immunoglobulin-like domain.
 DR PIR: A90403; MHDGMO.
 DR HSSP: P01772; 2FB4.
 DR InterPro: IPR007110; Ig-like.
 DR InterPro: IPR003006; Ig_MHC.
 DR InterPro: IPR003596; Ig_V.
 DR Pfam: PF00047; Ig; 1.
 DR SMART: SM00406; IgV; 1.
 DR SMART: PS50835; IG-LIKE; 1.
 KW Immunoglobulin V region.
 FT DOMAIN 1 116 IG-LIKE.
 FT NON_TER 117 117
 FT SEQUENCE 117 AA; 12703 MW; FCE07309E0A84B35 CRC64;
 Query Match 56.6%; Score 390; DB 1; Length 117;
 Best Local Similarity 62.5%; Pred. No. 5.8e-32;
 Matches 85; Conservative 9; Mismatches 18; Indels 24; Gaps 4;
 QY 1 EVOLLESGVESGGGLVPRGGSRLRLSCAASGFTFSYSMMHWYRQPGKGLEWVSISNSNT 60
 DB 1 EVKL---VESGGDLVPRGGSRLRLSCVAGFTFSNGMSWVRQDPGEGLEWVADISSGC 55
 QY 61 YIYADAVKGRFTISRDNKAKSLYLQMSLAEHTAVYVCARD-----RSNFIWVRS 115
 DB 56 QIYADAVKGRFTISRDNKAKSLYLQMDLRVEDTAVYVCATGDIETPR----- 106
 QY 116 DGMVWGQGTIVIVSS 131
 DB 107 -----FGQGTIVIVSS 117

Search completed: September 24, 2003, 06:27:32
 Job time : 34 secs

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OY 121 WGCGTIVTSS 131
 |||||
 Db 131 WGRGTLVTSS 141

RESULT 2

O9UL91 PRELIMINARY; PRT; 118 AA.
 AC O9UL91
 DT 01-MAY-2000 (Tremblrel. 13, Created)
 DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)
 DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
 DE Mucin-reactive immunoglobulin heavy chain variable region
 DE (Fragment).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98277139; PubMed=9614934;
 RA Wu X., Liu B., Van der Merwe P.L., Kallis N.N., Berney S.M.,
 RA Young D.C.;
 RT "Mucin-reactive autoantibodies in rheumatic carditis and normal
 fetus.";
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).
 DR EMBL; AF035023; AAD56259.1; -
 DR HSSP; P01772; 2FB4.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003006; Ig_MHC.
 DR InterPro; IPR003596; Ig_V.
 DR Pfam; PF00047; Ig; 1.
 DR SMART; SM00406; IGV; 1.
 DR PROSITE; PS50835; IG_LIKE; 1.
 DR NON TER 1
 FT NON TER 118
 SO SEQUENCE 118 AA; 12843 MW; D0633949F2AC149D CRC64;

Query Match 69.3%; Score 477.5; DB 4; Length 118;
 Best Local Similarity 75.6%; Pred. No. 1.9e-39;
 Matches 99; Conservative 7; Mismatches 10; Indels 15; Gaps 3;

OY 1 EVQLLSSGVSGGLVPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWSSISNSNT 60
 |||||
 Db 1 EVQL---VESGGGLVQPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWSSISNTII 56
 OY 61 YIYADAVKGRFTISDNKNSLYLQMSLRAEDTAVYVCARDSD---SEAFD 106
 Db 57 TIYADSVKGRFTISDNKNSLYLQMSLRAEDTAVYVCARDSD-----SEAFD 106
 OY 120 WVGCGTIVTSS 130
 |||||
 Db 107 WVGCGTIVTSS 117

RESULT 3

O96K68 PRELIMINARY; PRT; 494 AA.
 AC O96K68
 DT 01-DEC-2001 (Tremblrel. 19, Created)
 DT 01-DEC-2001 (Tremblrel. 19, Last sequence update)
 DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
 DE Hypothetical protein FLJ14473.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Mammary gland;
 RA Isogai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y.,
 RA Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H.,

RA Wagatsuma M., Hosofiri T., Kaku Y., Kodaira H., Kondo H., Sugawara M.,
 RA Takahashi M., Chiba Y., Ishida S., Murakawa K., Ono Y., Takiguchi S.,
 RA Watanabe S., Kimura K., Murekami K., Ishii S., Kawai Y., Saito K.,
 RA Yamamoto J., Wakamatsu A., Nakamura Y., Nagahari K., Masuno Y.,
 RA Niinomiya K., Iwayanagi T.,
 RT "NPD human cDNA sequencing project.";
 RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AK027379; BAB55072.1; -
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003006; Ig_MHC.
 DR InterPro; IPR003596; Ig_V.
 DR Pfam; PF00047; Ig; 1.
 DR SMART; SM00406; IGV; 1.
 DR PROSITE; PS50835; IG_LIKE; 4.
 DR PROSITE; PS00290; IG_MHC; 1.
 KW Hypothetical protein.
 SO SEQUENCE 494 AA; 53088 MW; 9A1D7AEB5AE64C0E CRC64;

Query Match 67.7%; Score 466.5; DB 4; Length 494;
 Best Local Similarity 72.5%; Pred. No. 1.3e-37;
 Matches 95; Conservative 8; Mismatches 19; Indels 9; Gaps 2;

OY 1 EVQLLSSGVSGGLVPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWSSISNSNT 60
 |||||
 Db 20 EVQL---VESGGGLVPGGSLRLSCAASGFTFSYAMWVROGPGKLEWSSISNSRD 75
 OY 61 YIYADAVKGRFTISDNKNSLYLQMSLRAEDTAVYVCARDSD---CNGAICVGFSP 120
 Db 76 YIYRDSVKGRFTISDNKNSLYLQMSLRAEDTAVYVCARDSD-----CNGAICVGFSP 130
 OY 121 WGCGTIVTSS 131
 |||||
 Db 131 WGCGTIVTSS 141

RESULT 4

O96BB9 PRELIMINARY; PRT; 597 AA.
 AC O96BB9
 DT 01-DEC-2001 (Tremblrel. 19, Created)
 DT 01-DEC-2001 (Tremblrel. 19, Last sequence update)
 DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
 DE Hypothetical protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=B-cell;
 RA Strausberg R.;
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC015760; AAH15760.1; -
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003006; Ig_MHC.
 DR InterPro; IPR003596; Ig_V.
 DR Pfam; PF00047; Ig; 1.
 DR SMART; SM00406; IGV; 1.
 DR PROSITE; PS50835; IG_LIKE; 5.
 DR PROSITE; PS00290; IG_MHC; 3.
 KW Hypothetical protein.
 SO SEQUENCE 597 AA; 65039 MW; 4FCA3AD8BECE263D9 CRC64;

Query Match 67.2%; Score 463; DB 4; Length 597;
 Best Local Similarity 72.0%; Pred. No. 3.7e-37;
 Matches 95; Conservative 12; Mismatches 17; Indels 8; Gaps 3;

OY 1 EVQLLSSGVSGGLVPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWSSISNSNT 60
 |||||
 Db 20 EVQL---ESGGGLVQPGGSLRLSCAASGFTFSYAMWVROGPGKLEWSSISNSG 75
 OY 61 YIYADAVKGRFTISDNKNSLYLQMSLRAEDTAVYVCARDSD---YSNFLRWVRSDGMD 119
 |||||

Db	76	STIYADSVKGRRTIRDNDRPTLYLQMNLSLAEDTAYLYCCAKDPRTSASGNITRE---	D 132
QY	120	VWGQGTIVYVSS	131
Db	133	YWGQGTIVYVSS	144

RESULT 5	ID	Q8WJ38	PRELIMINARY;	PRT;	573 AA.
Q8WJ38	AC	Q8WJ38;			
DT	01-MAR-2002	(TREMBLrel. 20, Created)			
DT	01-MAR-2002	(TREMBLrel. 20, Last sequence update)			
DT	01-MAR-2003	(TREMBLrel. 23, Last annotation update)			
DE		Hypothetical protein.			
OS		Homo sapiens (Human).			
OC		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC		Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX		NCBI_TaxId=9606;			
RN		[1]			
RP		SEQUENCE FROM N.A.			
RC		TISSUE=Tonsil;			
RA		Strausberg R.;			
RL		Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.			
DR		EMBL: BC021276; AAH21276.1; -			
DR		InterPro: IPR007110; Ig_Like.			
DR		InterPro: IPR003006; Ig_Mc.			
DR		InterPro: IPR003596; Ig_v.			
DR		Pfam: PF00047; Ig_4.			
DR		SMART: SM00406; IGV_1.			
DR		PROSITE: PS50835; IG_LIKE; 2.			
DR		PROSITE: PS00290; IG_Mc; 2.			
DR		Hypothetical protein.			
Q8WJ38		SEQUENCE 573 AA; 62967 MW; PD072344033AC530 CRC64;			

Query Match	67.0%	Score 461.5	DB 4	Length 573
Best Local Similarity	73.3%	Pred. No. 4.9e-37		
Matches 96; Conservative	8	Mismatches 20	Indels 7	Gaps 2

[illegible]

RESULT	6
08WUK1	
ID	08WUK1
AC	08WUK1;
DT	01-MAR-2002 (TREMBLrel. 20, Created)
DT	01-MAR-2002 (TREMBLrel. 20, Last sequence update)
DT	01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE	Hypothetical protein.
OS	Homo sapiens (Human).
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
NCBI_TaxID=9606;	
[1]	
SEQUENCE FROM N.A.	
RC	STRAUSSBERG R.;
RC	TISSUE-Tonsil;
RA	Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.
RL	EMBL: BC020240; AAH02040.1.
DR	InterPro: IPR007110; I9_1like.
DR	InterPro: IPR003006; I9_MHC.
DR	InterPro: IPR003596; I9_V.

DR Pfam: PF00047; Ig, 5.
DR SMART: SM00406; IGV, 1.
DR PROSITE: PS50835; IG_LIKE, 5.
DR PROSITE: PS00290; IG_MHC, 3.
KW Hypothetical protein
SQ SEQUENCE 613 AA; 67296 MW; 60C7F5950671EB35 CRC64;

Query Match	66.1%;	Score 455.5;	DB 4;	Length 613;
Best Local Similarity	69.4%;	Pred. No. 2.1e-36;		
Matches 93;	Conservative 12;	Mismatches 12;	Indels 17;	Gaps 4

```
QY      3 EVOLDLGGVSGGGLVPCPGSLRLSCASGSGFFSSYSMMHWROCPGGLLEWISINSNT 60
        :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      20 QVQL-----VESGGGVYQPGSRIRLSCASGTFESSIGHMWKRAQPGGLEMAVAISDGS 75

QY      61 YIYYADAVNGRTTISRDNAKNSLYIQMNSLAERTAYTYCYARDSRYSNFLRWARSQM-- 118
        :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      76 NKIYYADVSVGRFTISDRNSKNFLLYLQNNLSLRDEPTAIVYCAKD-----W-SECVET 125

QY      119 -DYWGSGTVIVSS 131
        :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      126 FDIWGSGTMVTVS 139
```

RESULT 7	ID	091205	PRELIMINARY:	PRT:	473 AA.
AC	091205;				
DT	01-DEC-2001 (TREMBLrel. 19, Created)				
DT	01-DEC-2001 (TREMBLrel. 19, Last sequence update)				
DT	01-MAR-2003 (TREMBLrel. 23, Last annotation update)				
DE	Hypothetical 51.9 kDa protein.				
GN	A004919.				
OS	Mus musculus (Mouse).				
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus				
OX	NCBI_TaxID=10090;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RA	Strausberg R.;				
RL	Submitted (Jul-2001) to the EMBL/GenBank/DBJ databases.				
DR	EMBL: BC010327; AAH0337.1; -.				
DR	MGI: 2144967; A004919.				
DR	InterPro: IPR000345; CytoC_heme_bind.				
DR	InterPro: IPR007110; IG-1like.				
DR	InterPro: IPR003006; IG_MHC.				
DR	InterPro: IPR003596; IG_v.				
DR	Pfam: PF00047; Ig; 3.				
DR	SMART: SM00406; IGV; 1.				
DR	PROSITE: PS00190; CYTOCHROME_C; 1.				
DR	PROSITE: PS50835; IG_LIKE; 4.				
DR	PROSITE: PS00290; IG_MHC; 1.				
DR	Hypothetical protein.				
QO	SEQUENCE 473 AA: 51946 MW; CF625F008932AF12 CRC64;				

Query Match	65.8%;	Score 453.5;	DB 11;	Length 473;
Best Local Similarity	68.7%;	Pred. No. 2.4e-36;		
Matches	90;	Conservative 13;	Mismatches 15;	Indels 13;
				Gaps 3;

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QY 1 EVOLLESGVSGGGGLYKPCGSLRLSCAASGTFSSYSIMHWROGPGKGLPMWSINSNT 60
    |||||
    |||||
Db 20 EYGL-----VESGGGLYKRGSRKRLSCAASGTFSDYGMHWYRQAPRKGLEMAVYINGST 75
    |||||
QY 61 YIYADAVAGRTTISDNAAKNSLYLOAMSLEAERTAYLYCARDRSRYNFLRWYRSDGMV 120
    |||||
    |||||
Db 76 TIYATVAVGRTTISDNAAKNTFLQMTSLRSEDTAMVYCAR-----LMLRR--IDY 126
    |||||
QY 121 WGQGTIVVSS 131
    |||||
Db 127 WGQGTIVVSS 137

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RESULT 8

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Q9UL90
ID Q9UL90 PRELIMINARY; PRT; 113 AA.
AC Q9UL90;
DT 01-MAY-2000 (TRENBLREL. 13, Created)
DT 01-MAY-2000 (TRENBLREL. 13, Last sequence update)
DT 01-MAR-2003 (TRENBLREL. 23, Last annotation update)
DE Myosin-reactive immunoglobulin heavy chain variable region
   (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934;
RA Wu X., Liu B., Van der Merwe P.L., Kallis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
   fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR EMBL; AF035024; AAD56260.1; -.
DR HSSP; P01772; 2PB4.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_v.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT TER 1
SQ SEQUENCE 113 AA; 12437 MW; ED57FDD19086D07F CRC64;

Query Match 65.7%; Score 453; DB 4; Length 113;
Best Local Similarity 69.5%; Pred. No. 4.6e-37;
Matches 91; Conservative 8; Mismatches 14; Indels 18; Gaps 2;

QY 1 EVOLLESGVSGGGLVPGGSLRLSCAASGFTSSYMHVVRGPGKGLEWSSISNNT 60
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVOL---VESGGGVVPGGSLRLSCAASGFTSSYMHVVRGPGKLEWVAIRIDGS 56
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 YIYADAVKGRFTISRDNANKSLYLQNSLRAEHTAVYYCARDSRYSNFLRWVSDGMV 120
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 NKRIADSVKGRFTISRDNANKSLYLQNSLRAEDTAVYYCAKDLNY----- 102
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:

QY 121 WGQGTIVVSS 131
   ||||| |||||
Db 103 WGQGTIVVSS 113
   ||||| |||||

RESULT 9
Q9UL71
ID Q9UL71 PRELIMINARY; PRT; 121 AA.
AC Q9UL71;
DT 01-MAY-2000 (TRENBLREL. 13, Created)
DT 01-MAY-2000 (TRENBLREL. 13, Last sequence update)
DT 01-MAR-2003 (TRENBLREL. 23, Last annotation update)
DE Myosin-reactive immunoglobulin heavy chain variable region
   (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934;
RA Wu X., Liu B., Van der Merwe P.L., Kallis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
   fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR EMBL; AF035043; AAD56279.1; -.
DR HSSP; P01772; 2PB4.
DR InterPro; IPR007110; Ig-like.
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DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_v.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER 1
FT TER 1
SQ SEQUENCE 121 AA; 13154 MW; 2F045CCEA5D0736 CRC64;

Query Match 65.3%; Score 450; DB 4; Length 121;
Best Local Similarity 68.7%; Pred. No. 9.9e-37;
Matches 90; Conservative 10; Mismatches 21; Indels 10; Gaps 2;

QY 1 EVOLLESGVSGGGLVPGGSLRLSCAASGFTSSYMHVVRGPGKGLEWSSISNNT 60
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVOL---VESGGGVVPGGSLRLSCAASGFTDGYAMHVVRGPGKLEWVSLISDDG 56
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:

QY 61 YIYADAVKGRFTISRDNANKSLYLQNSLRAEHTAVYYCARDSRYSNFLRWVSDGMV 120
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 STIYADSVKGRFTISRDNANKSLYLQNSLRAEDTAVYYCAKGVVTTT-----DREDI 110
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:

QY 121 WGQGTIVVSS 131
   ||||| |||||
Db 111 WGQGTIVVSS 121
   ||||| |||||

RESULT 10
Q99KA4
ID Q99KA4 PRELIMINARY; PRT; 487 AA.
AC Q99KA4;
DT 01-JUN-2001 (TRENBLREL. 17, Created)
DT 01-JUN-2001 (TRENBLREL. 17, Last sequence update)
DT 01-MAR-2003 (TRENBLREL. 23, Last annotation update)
DE Hypothetical 52.6 kDa protein.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RA Strausberg R.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC004786; AAH04786.1; -.
DR HSSP; P01810; 2PB4.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_v.
DR Pfam; PF00047; Ig; 4.
DR SMART; SM00406; IGV; 1.
DR PROSITE; PS50835; IG_LIKE; 4.
DR PROSITE; PS00290; IG_MHC; 2.
KW Hypothetical protein.
SQ SEQUENCE 487 AA; 52554 MW; 7DC8E96DB33077B CRC64;

Query Match 64.7%; Score 445.5; DB 11; Length 487;
Best Local Similarity 67.2%; Pred. No. 1.5e-35;
Matches 90; Conservative 14; Mismatches 17; Indels 13; Gaps 3;

QY 1 EVOLLESGVSGGGLVPGGSLRLSCAASGFTSSYMHVVRGPGKGLEWSSISNNT 60
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 20 EVOL---VESGGGLVPGGSLRLSCAASGFTSSYAMSVKRTPEKRLRWATISDGS 75
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 YIYADAVKGRFTISRDNANKSLYLQNSLRAEHTAVYYCARP---SRYSNFLRWVSDG 117
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 76 YTIYPDVVKGRFTISRDNANKSLYLQNSHLKSEDTAVYYCARDMGSGPYGGYKRF----- 130
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 118 MDVWGQGTIVVSS 131
   ||||| |||||
Db 131 -DYWGQGTIVVSS 143
   ||||| |||||

RESULT 11
Q9UL93
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ID 09UL93      PRELIMINARY;      PRT;      116 AA.
AC 09UL93;
DR 01-MAY-2000 (TREMBlrel. 13, Created)
DT 01-MAY-2000 (TREMBlrel. 13, Last sequence update)
DE 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Myosin-reactive Immunoglobulin heavy chain variable region
   (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934;
RA Wu X., Liu B., Van der Merwe P.L., Kallis N.N., Berney S.M.,
   "Myosin-reactive autoantibodies in rheumatic carditis and normal
   fetus.";
RT Clin. Immunol. Immunopathol. 87:184-192(1998).
RL EMBL; AF035021; AAD56257.1; -.
DR HSSP; P01772; 2FB4.
DR InterPro; IPR007110; Ig_1Ike.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_V.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00406; IgV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER
FT SEQUENCE 116 AA; 12434 MW; ODA0348154DD0601 CRC64;

Query Match      62.7%; Score 432; DB 4; Length 116;
Best Local Similarity 67.7%; Pred. No. 5.5e-35;
Matches 88; Conservative 10; Mismatches 18; Indels 14; Gaps 2;

QY 2 VOLLESVESGGGLVPRGGSRLRLSCAASGFTFSSYSMHWRQPGKGLWVSSISNSNTY 61
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 VOL----VESGGGVPRGGRSLRLSCAASGFTFSSYSAMHWVQAPGKGLWVAISYDSN 56
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 62 IYYADAVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARSISNFLRWVRSDGMDV 121
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 KYVADSVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCAAGGGL-----GLGYW 106
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 122 GQGTIVVSS 131
   ||||| |||
Db 107 GQGTIVVSS 116
   ||||| |||

RESULT 12
O8N5K4      PRELIMINARY;      PRT;      499 AA.
AC O8N5K4;
DR 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DE 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Hypothetical protein.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Blood;
RA Strausberg R.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC032249; AAH32249.1; -.
DR InterPro; IPR003599; Ig.
DR InterPro; IPR007110; Ig_1Ike.
DR InterPro; IPR003597; Ig_c1.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_V.
DR Pfam; PF00047; Ig; 4.
DR SMART; SM00409; IG; 4.

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DR SMART; SM00407; IGc1; 2.
DR SMART; SM00406; IGv; 1.
DR PROSITE; PS50835; IG_LIKE; 4.
DR PROSITE; PS00290; IG_MHC; 1.
DR Hypothetical protein.
SQ SEQUENCE 499 AA; 53376 MW; 93A5C89582054F32 CRC64;

Query Match      62.4%; Score 430; DB 4; Length 499;
Best Local Similarity 66.7%; Pred. No. 5.2e-34;
Matches 92; Conservative 9; Mismatches 19; Indels 18; Gaps 4;

QY 1 EVOLLESVESGGGLVPRGGSRLRLSCAASGFTFSSYSMHWRQPGKGLWVSSISNSNT 60
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 20 EVOL----VESGGGVPRGGSRLRLSCATSGFTFDSCASWVQAPGKGLWVSSINWNG 75
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 61 IYYADAVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARD--SRYSNFLRWVRSDG-- 117
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 76 STNYADSVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDPTKYC-----SGGSC 128
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 118 ----MDVWGQGTIVVSS 131
   ||||| |||
Db 129 LGYMDVWGKGTIVVSS 146
   ||||| |||

RESULT 13
O9HCC1      PRELIMINARY;      PRT;      112 AA.
AC O9HCC1;
DR 01-MAR-2001 (TREMBlrel. 16, Created)
DT 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
DE 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Single chain Fv (Fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Kikuchi M., Takeda C., Tsujimoto Y., Asada S., Nagata K.;
RT "An antibody fragment2A3 specific for native lysozyme: isolation from a
   human synthetic phage display library and characterization.";
RL Submitted (OCT-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB049915; BAB16829.1; -.
DR HSSP; P01772; 2FB4.
DR InterPro; IPR007110; Ig_1Ike.
DR InterPro; IPR003006; Ig_MHC.
DR InterPro; IPR003596; Ig_V.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00406; IgV; 1.
DR PROSITE; PS50835; IG_LIKE; 1.
FT NON_TER
FT NON_TER
FT SEQUENCE 112 AA; 12243 MW; 24F1A45EC3B84788 CRC64;

Query Match      62.0%; Score 427.5; DB 4; Length 112;
Best Local Similarity 69.3%; Pred. No. 1.5e-34;
Matches 88; Conservative 8; Mismatches 16; Indels 15; Gaps 3;

QY 1 EVOLLESVESGGGLVPRGGSRLRLSCAASGFTFSSYSMHWRQPGKGLWVSSISNSNT 60
   ||||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 EVOL----VESGGGVPRGGSRLRLSCAASGFTFDYGSWVQAPGKGLWVSGINWNG 56
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 61 IYYADAVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARSISNFLRWVRSDGMDV 120
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 STGYADSVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCAR--RRYA-----LDY 105
   ||| |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY 121 WGQGTIV 127
   ||||| |
Db 106 WGQGTIV 112
   ||||| |

RESULT 14
O9UL84

```

```
ID 090184 PRELIMINARY: PRT: 122 AA.
AC 090184:
DT 01-MAY-2000 (TREMblrel. 13, Created)
DT 01-MAY-2000 (TREMblrel. 13, Last sequence update)
DT 01-MAY-2003 (TREMblrel. 23, Last annotation update)
DE Myosin-reactive immunoglobulin heavy chain variable region
DE (fragment).
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98277139; PubMed=9614934;
RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,
RA Young D.C.;
RT "Myosin-reactive autoantibodies in rheumatic carditis and normal
RT fetus.";
RL Clin. Immunol. Immunopathol. 87:184-192(1998).
DR HSP: P01772; 2FB4.
DR InterPro: IPR007110; Iq-like.
DR InterPro: IPR003006; Iq_MHC.
DR Pfam: PF00047; Iq_v.
DR SMART: SM00406; Iq_v.1.
DR PROSITE: PS50835; Iq_Like; 1.
FT NON_TER 1
FT SEQUENCE 122 AA; 13579 MW; 36054D41366545B8 CRC64;
SQ
Query Match 61.8%; Score 426.5; DB 4; Length 122;
Best Local Similarity 66.9%; Pred. No. 2e-34;
Matches 89; Conservative 11; Mismatches 20; Indels 13; Gaps 3;
QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTSSYEMHWYRQPGKLEWSSISNSNT 60
Db 1 EVOL---VESGGGVVOPGSRSLRSCAASRFTESNYGMHWYRQAPGKLEWVAISNDGS 56
QY 61 YIYVADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVSDG--M 118
Db 57 YTYVADSVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVSDG--M 118
QY 119 DWVGQGTLYVSS 131
Db 110 DWVGQGTLYVSS 122
RESULT 15
ID 0920E7 PRELIMINARY: PRT: 119 AA.
AC 0920E7:
DT 01-DEC-2001 (TREMblrel. 19, Created)
DT 01-DEC-2001 (TREMblrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
DE Pterin-mimicking anti-idiotope heavy chain variable region
DE (fragment).
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX Atkin J.D., Iape A., Jennings I.G., Horafitis O., Cotton R.G.H.;
RT "Definition of the idiotope of pterin-mimicking Antibodies Expressed
RT in Mammalian Cells.";
RL EMBL: AF307937; AAL09421.1; -
DR InterPro: IPR007110; Iq-like.
DR InterPro: IPR003006; Iq_MHC.
DR Pfam: PF00047; Iq_v.1.
DR SMART: SM00406; Iq_v.1.
```

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DR PROSITE: PS50835; Iq_Like; 1.
FT NON_TER 1
FT SEQUENCE 119 AA; 13025 MW; F6E904044381CA7C CRC64;
SQ
Query Match 61.8%; Score 426; DB 11; Length 119;
Best Local Similarity 65.6%; Pred. No. 2.2e-34;
Matches 86; Conservative 12; Mismatches 21; Indels 12; Gaps 2;
QY 1 EVOLLESVSGGGLVPGGSLRLSCAASGFTSSYEMHWYRQPGKLEWSSISNSNT 60
Db 1 EVOL---VESGGDLVPGGSLRLSCAASGFTSSYEMHWYRQTPDKRLEWVAITSSGGS 56
QY 61 YIYVADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVSDGMDV 120
Db 57 YTYVADSVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSRYSNFLRWVSDGMDV 120
QY 121 WGQGTLYVSS 131
Db 109 WGQGTLYVSSA 119
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Search completed: September 24, 2003, 06:29:00
Job time : 77 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 24, 2003, 06:25:35 ; Search time 35 Seconds
(without alignments)
158.363 Million cell updates/sec

Title: US-09-848-798a-28

Perfect score: 689
Sequence: 1 EVOLLESVSGGGGLVKGPG.....WVRSDGMDVWGQGTIVVSS 131Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA: *
1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep: *
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep: *
3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep: *
4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep: *
5: /cgn2_6/ptodata/2/1aa/PCTUS.COMB.pep: *
6: /cgn2_6/ptodata/2/1aa/Backfilltest.pep: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	689	100.0	131	3	US-09-240-274-28
2	643	93.3	127	3	US-09-240-274-27
3	507.5	73.7	245	4	US-08-918-148-78
4	488	70.8	249	4	US-10-039-785-53
5	481.5	69.9	109	2	US-08-379-057-32
6	481	69.8	123	2	US-08-665-202-30
7	479.5	69.6	245	4	US-09-315-574-30
8	478.5	69.4	111	1	US-08-918-148-75
9	478.5	69.4	111	1	US-08-211-202-134
10	473.5	68.7	123	1	US-08-082-623-3
11	470.5	68.3	128	1	US-08-478-039-102
12	470.5	68.3	128	1	US-08-476-349A-102
13	470	68.2	117	4	US-09-025-769B-24
14	470	68.2	123	4	US-09-560-198A-2
15	469.5	68.1	128	1	US-08-478-039-73
16	469.5	68.1	128	1	US-08-476-349A-73
17	467.5	67.9	120	4	US-09-025-769B-38
18	467.5	67.9	120	4	US-09-025-769B-63
19	467.5	67.9	281	4	US-09-025-769B-178
20	463	67.2	117	3	US-08-545-809A-107
21	463	67.2	119	1	US-07-988-925-11
22	463	67.2	119	2	US-08-362-780-11
23	463	67.2	127	3	US-09-240-274-139
24	461.5	67.0	122	5	PCT-US93-08435-12
25	460	66.8	113	3	US-08-974-889-6
26	460	66.8	123	4	US-09-344-587-13
27	458.5	66.5	117	2	US-08-428-197-36

28	458.5	66.5	117	5	PCT-US93-10555-36	Sequence 36, Appl
29	458.5	66.5	122	5	PCT-US93-08435-14	Sequence 14, Appl
30	458.5	66.5	126	3	US-08-983-607-48	Sequence 48, Appl
31	457.5	66.4	126	3	US-09-240-274-152	Sequence 152, App
32	457	66.3	123	4	US-09-560-198A-152	Sequence 4, Appl
33	455.5	66.1	122	5	PCT-US93-08435-43	Sequence 43, Appl
34	454.5	66.0	135	3	US-08-579-378A-20	Sequence 20, Appl
35	454.5	66.0	140	3	US-08-983-607-32	Sequence 32, Appl
36	454.5	66.0	443	5	PCT-US96-13152-4	Sequence 4, Appl
37	453.5	65.8	120	3	US-07-934-373C-4	Sequence 4, Appl
38	453.5	65.8	120	3	US-08-437-642B-4	Sequence 4, Appl
39	453.5	65.8	120	4	US-08-146-206C-4	Sequence 4, Appl
40	453	65.7	112	1	US-08-211-202-133	Sequence 133, App
41	453	65.7	121	2	US-08-887-352B-4	Sequence 4, Appl
42	453	65.7	121	3	US-09-109-207C-4	Sequence 4, Appl
43	453	65.7	121	3	US-09-296-005-4	Sequence 4, Appl
44	453	65.7	125	2	US-08-428-197-1	Sequence 1, Appl
45	453	65.7	125	5	PCT-US93-10555-1	Sequence 1, Appl

ALIGNMENTS

```
RESULT 1
US-09-240-274-28
; Sequence 28, Application US/09240274
; Patent No. 6255455
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: Rn(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; FILE REFERENCE: 09596-4202
; CURRENT FILING DATE: 1999-01-29
; EARLIER APPLICATION NUMBER: US/09/240,274
; EARLIER FILING DATE: 1998-04-10
; EARLIER APPLICATION NUMBER: 60/028,550
; EARLIER FILING DATE: 1996-10-11
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E03
US-09-240-274-28

Query Match          100.0%; Score 689; DB 3; Length 131;
Best Local Similarity 100.0%; Pred. No. 6; le-58;
Matches 131; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EVOLLESVSGGGGLVKGPGSLRSCAAGTFFSSYSHWVROGPKGLEWVSSISNSNT 60
        |||||||
DB      1 EVOLLESVSGGGGLVKGPGSLRSCAAGTFFSSYSHWVROGPKGLEWVSSISNSNT 60
        |||||||
QY      61 YYYADAKGFFTSRDNAKNSLYLQMSLAETHAVYYCARDSRYSNFLRWVSDGDV 120
        |||||||
DB      61 YYYADAKGFFTSRDNAKNSLYLQMSLAETHAVYYCARDSRYSNFLRWVSDGDV 120
        |||||||
QY      121 WGQGTIVVSS 131
        |||||||
DB      121 WGQGTIVVSS 131
        |||||||

RESULT 2
US-09-240-274-27
; Sequence 27, Application US/09240274
; Patent No. 6255455
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: Rn(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; FILE REFERENCE: 09596-4202
; CURRENT FILING DATE: 1999-01-29
; EARLIER APPLICATION NUMBER: US/09/240,274
; EARLIER FILING DATE: 1998-04-10
; EARLIER APPLICATION NUMBER: 60/028,550
; EARLIER FILING DATE: 1996-10-11
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 131
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E03
US-09-240-274-27

Query Match          100.0%; Score 689; DB 3; Length 131;
Best Local Similarity 100.0%; Pred. No. 6; le-58;
Matches 131; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 EVOLLESVSGGGGLVKGPGSLRSCAAGTFFSSYSHWVROGPKGLEWVSSISNSNT 60
        |||||||
DB      1 EVOLLESVSGGGGLVKGPGSLRSCAAGTFFSSYSHWVROGPKGLEWVSSISNSNT 60
        |||||||
QY      61 YYYADAKGFFTSRDNAKNSLYLQMSLAETHAVYYCARDSRYSNFLRWVSDGDV 120
        |||||||
DB      61 YYYADAKGFFTSRDNAKNSLYLQMSLAETHAVYYCARDSRYSNFLRWVSDGDV 120
        |||||||
QY      121 WGQGTIVVSS 131
        |||||||
DB      121 WGQGTIVVSS 131
        |||||||
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FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/240,274
CURRENT FILING DATE: 1999-01-29
EARLIER APPLICATION NUMBER: 60/081,380
EARLIER FILING DATE: 1998-04-10
EARLIER APPLICATION NUMBER: 60/028,550
EARLIER FILING DATE: 1996-10-11
NUMBER OF SEQ ID NOS: 224
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO: 27
LENGTH: 127
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: anti-Rh(D) chain E0115
US-09-240-274-27
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Query Match      93.3%; Score 643; DB 3; Length 127;
Best Local Similarity 95.4%; Pred. No. 1.3e-53;
Matches 125; Conservative 0; Mismatches 2; Indels 4; Gaps 1;
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QY 1 EVQLLESGVSGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSISNSNT 60
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 1 EVQLL-----ESGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSISNSNT 56
QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARDSDRYSNFLRWVRSDGMV 120
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 57 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARDSDRYSNFLRWVRSDGMV 116
QY 121 WGQGTIVYSS 131
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 117 WGQGTIVYSS 127
```

```
RESULT 3
US-08-918-148-78
Sequence 78, Application US/08918148A
Patent No. 6342220
GENERAL INFORMATION:
APPLICANT: Adams, Camellia
APPLICANT: W
APPLICANT: Carter, Paul J.
APPLICANT: Bendly, Brian M.
APPLICANT: Gurney, Austin L.
TITLE OF INVENTION: Agonist Antibodies
FILE REFERENCE: P0979
CURRENT APPLICATION NUMBER: US/08/918,148A
CURRENT FILING DATE: 1997-08-25
NUMBER OF SEQ ID NOS: 79
SEQ ID NO: 78
LENGTH: 245
TYPE: PRT
ORGANISM: artificial
FEATURE:
NAME/KEY: unknown
LOCATION: 208
OTHER INFORMATION: unknown amino acid
US-08-918-148-78
```

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Query Match      73.7%; Score 507.5; DB 4; Length 245;
Best Local Similarity 77.9%; Pred. No. 1.6e-40;
Matches 102; Conservative 9; Mismatches 7; Indels 13; Gaps 2;
```

```
QY 1 EVQLLESGVSGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSISNSNT 60
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 3 EVQLL-----VESGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSISNSNT 58
QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARDSDRYSNFLRWVRSDGMV 120
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 59 YIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARDSDRYSNFLRWVRSDGMV 109
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
QY 121 WGQGTIVYSS 131
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
```

```
DB 110 WGRGTLVTVSS 120
```

```
RESULT 4
US-10-039-785-53
Sequence 53, Application US/10039785
Patent No. 6538938
GENERAL INFORMATION:
APPLICANT: Salcedo et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind to TRAIL
FILE REFERENCE: PF550
CURRENT APPLICATION NUMBER: US/10/039,785
CURRENT FILING DATE: 2002-05-07
PRIOR APPLICATION NUMBER: 60/369,860
PRIOR FILING DATE: 2002-04-05
PRIOR APPLICATION NUMBER: 60/341,237
PRIOR FILING DATE: 2001-12-20
PRIOR APPLICATION NUMBER: 60/331,310
PRIOR FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/331,044
PRIOR FILING DATE: 2001-11-07
PRIOR APPLICATION NUMBER: 60/327,364
PRIOR FILING DATE: 2001-10-09
PRIOR APPLICATION NUMBER: 60/323,807
PRIOR FILING DATE: 2001-09-21
PRIOR APPLICATION NUMBER: 60/309,176
PRIOR FILING DATE: 2001-08-02
PRIOR APPLICATION NUMBER: 60/294,981
PRIOR FILING DATE: 2001-06-04
PRIOR APPLICATION NUMBER: 60/293,473
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 66
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO: 53
LENGTH: 249
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: T1006F07 scFv
US-10-039-785-53
```

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Query Match      70.8%; Score 488; DB 4; Length 249;
Best Local Similarity 75.8%; Pred. No. 1.1e-38;
Matches 100; Conservative 9; Mismatches 15; Indels 8; Gaps 3;
```

```
QY 1 EVQLLESGVSGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPGKLEWVSISNSNT 60
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 1 EVQLL-----ESGGGLVKKPGGSLRLSCAASGFTFSYAMSWVROGPGKLEWVSISNSNT 56
QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARDSDRYSNFLRWVRSDGMV 119
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 57 YIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYVCARDSDRYSNFLRWVRSDGMV 113
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
QY 120 WGRGTLVTVSS 131
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
DB 114 WGRGTLVTVSS 125
```

```
RESULT 5
US-08-379-057-32
Sequence 32, Application US/08379057
Patent No. 5876950
GENERAL INFORMATION:
APPLICANT: Stadak, Anthony W.
APPLICANT: Hollibaugh, Diane L.
APPLICANT: Gilliland, Lisa K.
APPLICANT: Gordon, Marcia L.
APPLICANT: Bajorath, Jürgen
APPLICANT: Aruffo, Alejandro A.
TITLE OF INVENTION: Monoclonal Antibodies Specific For
Different Epitopes of Human gp39 and Methods for Their Use
TITLE OF INVENTION: In Diagnosis and Therapy
```

```

APPLICATION NUMBER: US/08/665,202
FILING DATE: 13-JUN-1996
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/000,238
FILING DATE: 14-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/000,250
FILING DATE: 15-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
REFERENCE/DOCKET NUMBER: 02307E-061410
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 123 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-665-202-30

Query Match      69.8%; Score 481; DB 2; Length 123;
Best Local Similarity 76.5%; Pred. No. 2,3e-38;
Matches 101; Conservative 8; Mismatches 13; Indels 10; Gaps 4

QY      1 EVOLLIESVEGGGLYKPGSLRLSCAASGFTFSYSHHWVRQGGKGLIEWSYISNSNT 60
      1 :||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      1 QVQLV---VEGGGGLVDPGSLRLSCAASGFTFSYEMNWVRQAQGGKGLIEWSYISSSGS 56
      :||| :|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      61 YYYADAVKGGFTISRDNKAKSLYLOMNSLRRAETHAVYYCARD-SRYSNFLRWVRSDGMD 119
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db      57 YYYADSVKGGFTISRDNKAKSLYLOMNSLRRAEDTAVYYCARDLGYS--YGYV---GLD 111
      :|||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
QY      120 VMGGGTVTVVSS 131
      :||| :|||| :|||
Db      112 VMGGGTVTVVSS 123
      :||| :|||| :|||

RESULT 7
US-09-315-574-30
Sequence 30, Application US/09315574
Patent No. 6512097
GENERAL INFORMATION:
APPLICANT: Marks, James D.
APPLICANT: Schier, Robert
TITLE OF INVENTION: No. 6512097e1 High Affinity Human Antibodies to
TITLE OF INVENTION: Tumor Antigens
NUMBER OF SEQUENCES: 141
CORRESPONDENCE ADDRESS:
ADDRESSEE: Majestic, Parsons, Siebert & Hsue P.C.
STREET: Four Embarcadero Center, Suite 1100
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4106
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/315,574
FILING DATE: 20-MAY-99
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/000,238
FILING DATE: 14-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/000,250

```

FILING DATE: 15-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/665,202
FILING DATE: 13-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
REFERENCE/DOCKET NUMBER: 02307E-061411
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 123 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-09-315-574-30

Query Match 69.8%; Score 481; DB 4; Length 123;
Best Local Similarity 76.5%; Pred. No. 2,3e-38;
Matches 101; Conservative 8; Mismatches 13; Indels 10; Gaps 4;

QY 1 EVOLLESGVSGGLVPGGSLRLSCAASGFTSSYSMMHWVROGPGKLEWVSSISNSNT 60
DB 1 QVQL---VESGGGLVPGGSLRLSCAASGFTSSYSMMHWVROGPGKLEWVSSISNS 56
QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYICARD-SRYSNFLRWVRSDGMD 119
DB 57 TIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYICARDLGTS--YGV--GLD 111
QY 120 WVGQGTIVYSS 131
DB 112 WVGQGTIVYSS 123

RESULT 8
US-08-918-148-75
Sequence 75; Application US/08918148A
Patent No. 6342220
GENERAL INFORMATION:
APPLICANT: Adams, Camellia
APPLICANT: W.
APPLICANT: Carter, Paul J.
APPLICANT: Fendly, Brian M.
APPLICANT: Gurney, Austin L.
TITLE OF INVENTION: Agonist Antibodies
FILE REFERENCE: P0979
CURRENT APPLICATION NUMBER: US/08/918,148A
CURRENT FILING DATE: 1997-08-25
NUMBER OF SEQ ID NOS: 79
SEQ ID NO 75
LENGTH: 245
TYPE: PRP
ORGANISM: artificial
US-08-918-148-75

Query Match 69.6%; Score 479.5; DB 4; Length 245;
Best Local Similarity 72.5%; Pred. No. 7.1e-38;
Matches 95; Conservative 8; Mismatches 15; Indels 13; Gaps 2;

QY 1 EVOLLESGVSGGLVPGGSLRLSCAASGFTSSYSMMHWVROGPGKLEWVSSISNSNT 60
DB 3 EVQL---VOSGGGLVPGGSLRLSCAASGFTSSYSMMHWVROGPGKLEWVSSISNS 58
QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYICARD-SRYSNFLRWVRSDGMDV 120
DB 59 TIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYICARD-SRYSNFLRWVRSDGMDV 109
QY 121 WVGQGTIVYSS 131
DB 110 WVGQGTIVYSS 120

RESULT 9
US-08-211-202-134
Sequence 134; Application US/08211202
Patent No. 5565332
GENERAL INFORMATION:
APPLICANT: HOOGENBOOM, Hendicus Renerus Jacobus Matheus
APPLICANT: BAIR, Michael
APPLICANT: JESPER, Laurent Stephane Anne Therese
APPLICANT: WINTER, Gregory Paul
TITLE OF INVENTION: Production of chimeric antibodies - a
TITLE OF INVENTION: Combinatorial approach
NUMBER OF SEQUENCES: 144
CORRESPONDENCE ADDRESSES:
ADDRESSEE: David W. Clough, Marshall O'Toole Gerstein Murray &
ADDRESSEE: Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
FILING DATE: 23-SEP-1992
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9120252.3
FILING DATE: 23-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9120377.8
FILING DATE: 25-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/31960
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
SEQUENCE CHARACTERISTICS:
LENGTH: 111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-211-202-134

Query Match 69.4%; Score 478.5; DB 1; Length 111;
Best Local Similarity 78.2%; Pred. No. 3.5e-38;
Matches 97; Conservative 7; Mismatches 7; Indels 13; Gaps 2;

QY 1 EVOLLESGVSGGLVPGGSLRLSCAASGFTSSYSMMHWVROGPGKLEWVSSISNSNT 60
DB 1 EVQL---VOSGGGLVPGGSLRLSCAASGFTSSYSMMHWVROGPGKLEWVSSISNS 56
QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYICARD-SRYSNFLRWVRSDGMDV 120
DB 57 TIYADSVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYICARD-SRYSNFLRWVRSDGMDV 107


```
RESULT 12
US-08-476-349A-102
; Sequence 102, Application US/08476349A
; Patent No. 5750105
; GENERAL INFORMATION:
; APPLICANT: Newman, Roland A.
; APPLICANT: Hanna, Nabil
; APPLICANT: Raab, Ronald W.
; TITLE OF INVENTION: Recombinant Antibodies for Human Therapy
; NUMBER OF SEQUENCES: 114
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
; STREET: 699 Prince St.
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-1404
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/476,349A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 514
; APPLICATION DATA:
; APPLICATION NUMBER: US 08/379,072
; FILING DATE: 25-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/912,292
; FILING DATE: 10-JUL-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/856,281
; FILING DATE: 23-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/735,064
; FILING DATE: 25-JUL-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Teskin Esq., Roblin L.
; REGISTRATION NUMBER: 35,030
; REFERENCE/DOCKET NUMBER: 012712-161
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-836-6620
; TELEFAX: 703-836-2021
; INFORMATION FOR SEQ ID NO: 102:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 128 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
; ORIGINAL SOURCE:
; ORGANISM: Monkey
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: #40
; US-08-476-349A-102

Query Match      68.3%; Score 470.5; DB 1; Length 128;
Best Local Similarity 72.7%; Pred. No. 2,4e-37;
Matches 96; Conservative 9; Mismatches 22; Indels 5; Gaps 2;
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  1 EVOL- - - - - VESGGGLVPGGSLRLSCAASGFTSSSMHWVROAPGKGLEWVYXISASG 56
DB 1 YIYADAVKGRFTISRDNKNSLYLQNSLRRAETHAVYYCARDSRYSNFLRW-VRSDGMD 119
  57 YIYADSVKGRFTISRDNKNSLYLQNSLRRAETHAVYYCARQGPVQLFEMLLPTGSD 116
QY 120 WGGGTIVTVSS 131
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Db 117 VMGPGVLTIVSS 128
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RESULT 13
US-09-025-769B-24
; Sequence 24, Application US/09025769B
; Patent No. 6300064
; GENERAL INFORMATION:
; APPLICANT: Knappik, Achim
; APPLICANT: Pack, Peter
; APPLICANT: Ilag, Vic
; APPLICANT: Ge, Liming
; APPLICANT: Moroney, Simon
; TITLE OF INVENTION: Protein/(Poly)peptide libraries
; NUMBER OF SEQUENCES: 373
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: James F. Haley, Jr., Esq. c/o Fish & Neave
; STREET: 1251 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10021
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/025,769B
; FILING DATE: 18-FEB-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: EP 95 11 3021.0
; FILING DATE: 18-AUG-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: James F. Haley, Jr., Esq.
; REGISTRATION NUMBER: 27,794
; REFERENCE/DOCKET NUMBER: MORPHO/5
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212)596-9000
; TELEFAX: (212)596-9000
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 117 amino acids
; TYPE: amino acid
; STRANDEDNESS: linear
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-025-769B-24
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Query Match      68.2%; Score 470; DB 4; Length 117;
Best Local Similarity 73.3%; Pred. No. 2,4e-37;
Matches 96; Conservative 5; Mismatches 16; Indels 14; Gaps 2;
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  1 EVOL- - - - - VESGGGLVPGGSLRLSCAASGFTSSSMHWVROAPGKGLEWVSIVSYDG 56
DB 1 YIYADAVKGRFTISRDNKNSLYLQNSLRRAETHAVYYCARDSRYSNFLRWVRSDGMDV 120
  57 NYIYADSVKGRFTISRDNKNSLYLQNSLRRAEDTAVYYCARD- - - - - RGGSGDY 106
QY 121 WGGGTIVTVSS 131
DB 107 WGGGTIVTVSS 117
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RESULT 14
US-09-560-198A-2
; Sequence 2, Application US/09560198A
; Patent No. 6492497
; GENERAL INFORMATION:
```

```

1  APPLICANT: Thompson, Julia E
2  APPLICANT: Lennard, Simon N
3  APPLICANT: Milton, Allison J
4  APPLICANT: Braddock, Peta SH
5  APPLICANT: Du Fou, Sarah L
6  APPLICANT: McCafferty, John G
7  APPLICANT: Conroy, Louise A
8  APPLICANT: Tempest, Philip R
9  TITLE OF INVENTION: Specific binding members for TGFbeta
10 FILE REFERENCE: 28111/33620A
11 CURRENT APPLICATION NUMBER: US/09/560,198A
12 CURRENT FILING DATE: 2000-04-28
13 PRIOR APPLICATION NUMBER: US 60/131,983
14 PRIOR FILING DATE: 1999-04-30
15 NUMBER OF SEQ ID NOS: 25
16 SOFTWARE: PatentIn Ver. 2.1
17 SEQ ID NO 2
18 LENGTH: 123
19 TYPE: PR1
20 ORGANISM: Homo sapiens
21 US-09-560-198A-2

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Query Match	68.2%;	Score 470;	DB 4;	Length 123;
Best Local Similarity	70.2%;	Pred. NO. 2.5e-37;		
Matches 92;	Conservative 14;	Mismatches 17;	Indels 8;	Gaps 2

RESULT 15
US-08-478-039-73

APPLICANT: Newman, Roland A.
APPLICANT: Hanna, Nabil
APPLICANT: Raab, Ronald W.
TITLE OF INVENTION: Recombinant Antibodies for Human Therapy
NUMBER OF SEQUENCES: 114
CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATHIAS
STREET: 699 Prince St.
CITY: Alexandria

```

1  COMPUTER READABLE FORM:
2
3  MEDIUM TYPE: Floppy disk
4
5  COMPUTER: IBM PC compatible
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7  OPERATING SYSTEM: PC-DOS/MS-DOS
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9  SOFTWARE: PatentIn Release #1.0,
10 CURRENT APPLICATION DATA:
11
12 APPLICATION NUMBER: US/08/478,039
13
14 FILING DATE: 07-JUN-1995
15
16 CLASSIFICATION: 435
17
18 PRIOR APPLICATION DATA:
19
20 APPLICATION NUMBER: US 08/379,072
21
22 FILING DATE: 25-JAN-1995
23
24 PRIOR APPLICATION DATA:
25
26 APPLICATION NUMBER: US 07/912,292
27
28 FILING DATE: 10-JUL-1992
29
30 PRIOR APPLICATION DATA:
31
32 APPLICATION NUMBER: US 07/856,281

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Query Match	68.1%;	Score 469.5;	DB 1;	Length 128;
Best Local Similarity	72.0%;	Pred. No. 2.9e-37;		
Matches 95;	Conservative 10;	Mismatches 22;	Indels 5;	Gaps 2

Search completed: September 24, 2003, 06:30:34
Job time : 36 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 24, 2003, 06:29:06 ; Search time 467 Seconds
(without alignments)
42.444 Million cell updates/sec

Title: US-09-848-798a-28

Perfect score: 689

Sequence: 1 EVQLLESGVESGGGLVKKPGG.....WVRSDGMDVWGQTTIVISS 131

Scoring table:

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Gapop 10.0 , Gapext 0.5

Searched: 566894 segs, 151307093 residues

Total number of hits satisfying chosen parameters: 566894

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*
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18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	689	100.0	131	US-09-848-798-28	Sequence 28, Appl
2	643	93.3	127	US-09-848-798-27	Sequence 27, Appl
3	511.5	74.2	256	US-09-880-748-1318	Sequence 1318, Ap
4	509	73.9	248	US-09-880-748-913	Sequence 913, Ap
5	506.5	73.5	247	US-09-880-748-1764	Sequence 1764, Ap
6	504.5	73.2	116	US-10-091-300-24	Sequence 24, Appl
7	499.5	72.5	116	US-10-091-300-31	Sequence 31, Appl
8	499.5	72.5	249	US-09-880-748-1856	Sequence 1856, Ap
9	498	72.3	241	US-09-880-748-1937	Sequence 1937, Ap
10	497.5	72.2	247	US-09-880-748-1703	Sequence 1703, Ap
11	495.5	71.9	249	US-09-880-748-974	Sequence 974, Appl
12	494.5	71.8	248	US-09-880-748-1974	Sequence 1974, Ap
13	493.5	71.6	262	US-09-880-748-2081	Sequence 2081, Ap
14	492.5	71.5	252	US-09-880-748-1634	Sequence 1634, Ap
15	491.5	71.3	128	US-09-840-459-77	Sequence 77, Appl

16	491.5	71.3	128	10	US-09-840-459-79	Sequence 79, Appl
17	491	71.3	250	11	US-09-880-748-1179	Sequence 1179, Ap
18	491	71.3	255	11	US-09-880-748-1608	Sequence 1608, Ap
19	489.5	71.0	248	11	US-09-880-748-1965	Sequence 1965, Ap
20	489	71.0	244	11	US-09-880-748-1991	Sequence 1991, Ap
21	488	70.8	249	13	US-10-039-765-53	Sequence 53, Appl
22	487.5	70.8	256	11	US-09-880-748-1209	Sequence 1209, Ap
23	487.5	70.8	258	11	US-09-880-748-1841	Sequence 1841, Ap
24	485.5	70.5	250	11	US-09-880-748-1613	Sequence 1613, Ap
25	485	70.4	127	10	US-09-840-459-87	Sequence 87, Appl
26	484	70.2	255	11	US-09-880-748-1819	Sequence 1819, Ap
27	483	70.1	121	10	US-09-840-459-92	Sequence 92, Appl
28	483	70.1	125	10	US-09-840-459-76	Sequence 76, Appl
29	482.5	70.0	252	11	US-09-880-748-1362	Sequence 1362, Ap
30	482.5	70.0	253	12	US-10-120-414-76	Sequence 76, Appl
31	480.5	69.7	237	11	US-09-880-748-2104	Sequence 2104, Ap
32	480.5	69.7	240	11	US-09-880-748-2105	Sequence 2105, Ap
33	480.5	69.7	240	11	US-09-880-748-2113	Sequence 2113, Ap
34	479.5	69.6	126	12	US-10-041-860-13	Sequence 13, Appl
35	479.5	69.6	126	12	US-10-041-860-208	Sequence 208, Ap
36	478.5	69.4	247	11	US-09-880-748-1294	Sequence 1294, Ap
37	478.5	69.4	251	11	US-09-880-748-908	Sequence 908, Ap
38	477.5	69.3	120	11	US-09-995-529-8	Sequence 8, Appl
39	477.5	69.3	126	12	US-10-041-860-270	Sequence 270, Ap
40	477.5	69.3	237	11	US-09-880-748-2020	Sequence 2020, Ap
41	477.5	69.3	444	15	US-10-150-475A-6	Sequence 6, Appl
42	477	69.2	138	12	US-10-325-694-144	Sequence 144, Appl
43	477	69.2	138	12	US-10-325-694-150	Sequence 150, Appl
44	476	69.1	243	11	US-09-880-748-2102	Sequence 2102, Ap
45	475.5	69.0	254	11	US-09-880-748-1701	Sequence 1701, Ap

ALIGNMENTS

RESULT 1	
US-09-848-798-28	
; Sequence 28, Application US/09848798	
; Publication No. US20030040605A1	
GENERAL INFORMATION:	
; APPLICANT: Siegel, Donald L.	
; TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL	
; FILE REFERENCE: 09596-4202	
; CURRENT APPLICATION NUMBER: US/09/848,798	
; CURRENT FILING DATE: 2001-05-04	
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274	
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29	
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550	
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-11	
; NUMBER OF SEQ ID NOS: 224	
; SOFTWARE: PatentIn Ver. 2.0	
; SEQ ID NO 28	
; LENGTH: 131	
; TYPE: PRT	
; ORGANISM: Homo sapiens	
; FEATURE:	
; OTHER INFORMATION: anti-Rh(D) chain E03	
US-09-848-798-28	
Query Match	
Best Local Similarity 100.0%; Pred. No. 8,le-56;	
Matches 131; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	1 EVQLLESGVESGGGLVKKPGGSLRLSCAASGFTSSYSHMWNRQGGKLEWVSISNSNT 60
DB	1 EVQLLESGVESGGGLVKKPGGSLRLSCAASGFTSSYSHMWNRQGGKLEWVSISNSNT 60
QY	61 YIYVDAVKGRFTISRDNAKNSLYQMNSLRREHTAVYVCAKDSRYSNFLRVRSDGMDV 120
DB	61 YIYVDAVKGRFTISRDNAKNSLYQMNSLRREHTAVYVCAKDSRYSNFLRVRSDGMDV 120
QY	121 WGQTTIVISS 131

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Db          121 WGGGTTIVSS 131
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RESULT 2
US-09-848-798-27
; Sequence 27, Application US/09848798
; Publication No. US20030040605A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: R1(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; FILE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
; REFERENCE: 0396-4202
; CURRENT APPLICATION NUMBER: US/09/848,798
; PRIOR FILING DATE: 2001-03-04
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-11
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 127
; TYPE: prt
; ORGANISM: Homo sapiens
; OTHER INFORMATION: anti-Rh(D) chain E011s
US-09-848-798-27

Query Match          93.3%; Score 643; DB 11; Length 127;
Best Local Similarity 95.4%; Pred. No. 1,3e-51;
Matches 125; Conservative 0; Mismatches 2; Indels 4; Gaps 1;

Qy      1 EVOLLESGVSGGLVPRGSLRLSCAASGFTSSSMHWVRQPGKLEWVSISNT 60
      1 EVOL-----ESGGGLVPRGSLRLSCAASGFTSSSMHWVRQPGKLEWVSISNT 56
Db      1 YYYADAVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 120
      57 YYYADAVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 116
Qy      121 WGGGTTIVSS 131
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Db      117 WGGGTTIVSS 127

RESULT 3
US-09-880-748-1318
; Sequence 1318, Application US/09880748
; Publication No. US2003005937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; FILE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; REFERENCE: P5523
; CURRENT APPLICATION NUMBER: US/09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1318
; LENGTH: 256
; TYPE: prt
; ORGANISM: Homo sapiens
US-09-880-748-1318
```

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Query Match          74.2%; Score 511.5; DB 11; Length 256;
Best Local Similarity 78.2%; Pred. No. 2.8e-39;
Matches 104; Conservative 11; Mismatches 11; Indels 7; Gaps 3;

Qy      1 EVOLLESGVSGGLVPRGSLRLSCAASGFTSSSMHWVRQPGKLEWVSISNT 60
      1 EVOL-----VDSGGGLVPRGSLRLSCAASGFTSSSMHWVRQPGKLEWVSISNT 56
Db      1 YYYADAVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 117
      61 YYYADAVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 116
      57 YYYADSVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 114
Qy      118 MDVWGQTTIVS 130
      |||||
Db      117 MDVWGQTTIVS 129

RESULT 4
US-09-880-748-913
; Sequence 913, Application US/09880748
; Publication No. US2003005937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; FILE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; REFERENCE: P5523
; CURRENT APPLICATION NUMBER: US/09/880,748
; PRIOR FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 913
; LENGTH: 248
; TYPE: prt
; ORGANISM: Homo sapiens
US-09-880-748-913

Query Match          73.9%; Score 509; DB 11; Length 248;
Best Local Similarity 78.6%; Pred. No. 4.6e-39;
Matches 103; Conservative 8; Mismatches 14; Indels 6; Gaps 2;

Qy      1 EVOLLESGVSGGLVPRGSLRLSCAASGFTSSSMHWVRQPGKLEWVSISNT 60
      1 EVOL-----VESGGGLVPRGSLRLSCAASGFTSSSMHWVRQPGKLEWVSISNT 56
Db      1 YYYADAVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 120
      61 YYYADAVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 114
      57 YYYADSVKGRFTISRDNKNSLYLQNSLRAEDTAVYYCARDSRYSNPLRWASDGM 114
Qy      121 WGGGTTIVSS 131
      |||||
Db      115 WGGGTTIVSS 125

RESULT 5
US-09-880-748-1764
; Sequence 1764, Application US/09880748
; Publication No. US2003005937A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; FILE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; REFERENCE: P5523
; CURRENT APPLICATION NUMBER: US/09/880,748
; PRIOR FILING DATE: 2001-06-15
```


Db 57 YIYPAASVKGKRFISDNKNSLYLQMNSLRAEDTAIVYCAR-GNYDILTGYFTS--FDY 113
 |||||:|
 QY 121 WGQGTIVYVSS 131
 |||||
 Db 114 WGQGTLEVYSS 124
 |||||

RESULT 9
US-09-880-748-1937
; Sequence 1937, Application US/09880748
; Publication No. US2003005937A1

```

? APPLICANT: Ruben et al.
? TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blyx
? FILE REFERENCE: PEP23
? CURRENT APPLICATION NUMBER: US/09/880,748
? CURRENT FILING DATE: 2001-06-15
? PRIOR APPLICATION NUMBER: 60/212,210
? PRIOR FILING DATE: 2000-06-15
? PRIOR APPLICATION NUMBER: 60/240,816
? PRIOR FILING DATE: 2000-10-17
? PRIOR APPLICATION NUMBER: 60/276,248
? PRIOR FILING DATE: 2001-03-16
? PRIOR APPLICATION NUMBER: 60/277,379
? PRIOR FILING DATE: 2001-03-21
? PRIOR APPLICATION NUMBER: 60/293,499
? PRIOR FILING DATE: 2001-05-25
? NUMBER OF SEQ ID NOS: 3239
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 1937
? LENGTH: 241
? TYPE: PRT
? ORGANISM: Homo sapiens
? JS-09-880-748-1937

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```

Query Match 72.3%; Score 498; DB 11; Length 241;
Best Local Similarity 77.7%; Pred. No. 4,5e-38;
Matches 101; Conservative 7; Mismatches 8; Indels 14; Gaps 2

OY 2 VOLLESGVESGGLVKKPGGSLRLSCAASGFPFSSYSMMHWRCGPKGLEWSSINSNTY 61
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2 VOL-----VQSGGGLVTKSGSLRLSCAASGFPFSSYSMMHWRCAPKRGLEWSSISSSY 57
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

OY 62 IYYDAVAVGRTTISDNKAKNSLYLOMNSLRBHTVYVCARPSRNSFLRWRSQGMVY 121
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 58 IYYDAVAVGRTTISRDNAKNSLYLOMNSLRBHTVYVCARHFF-----GMDVY 107
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

OY 122 GGGTTVYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 108 GGGTMTVYSS 117
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 10
US-09-880-748-1703
Sequence 1703; Application US/09880748
Publication No. US20030055937A1
GENERAL INFORMATION:
Applicant: Ruben et al.
Title of Invention: Antibodies that Immunospecifically Bind BlyS
File Reference: PPS523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIORITY APPLICATION NUMBER: 60/211,210
PRIORITY FILING DATE: 2000-06-15
PRIORITY APPLICATION NUMBER: 60/240,816
PRIORITY FILING DATE: 2000-10-17
PRIORITY APPLICATION NUMBER: 60/276,248
PRIORITY FILING DATE: 2001-03-16
PRIORITY APPLICATION NUMBER: 60/277,379
PRIORITY FILING DATE: 2001-03-21
PRIORITY APPLICATION NUMBER: 60/293,499
PRIORITY FILING DATE: 2001-05-25

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? NUMBER OF SEQ ID NOS: 3239
? SOFTWARE: PatentIn Ver. 2.0
? SEQ ID NO 1703
? LENGTH: 247
? TYPE: PRT
? ORGANISM: Homo sapiens
? US-09-860-748-1703

```

	Query Match	72.2%	Score 497.5	DB 11	Length 247
	Best Local Similarity	78.6%	Pred. No. 5,2e-38		
	Matches 103	Conservative	8	Mismatches 13	Indels 7
					Gaps 3
QY	1	EVOLLESVEGGGGLVPRGSGSLRLSCASGTFSSSYMMHWOGGKGKLEWWSITSNSNT	60		
Db	1	QVOL-----VEGGGGLVPRGSGSLRLSCASGTFSSSYMMHWQAPCKGLEWWSITSSSSS	56		
QY	61	YIYADAVKGGFTTSRDNAKNSLTIQNNSLRAETHAVYVYVCARDSKYSNLFRRVRBDGMV	120		
Db	57	YIYADSKYKGGFTTSRDNAKNSLTIQNNSLRAETHAVYVYCA-TLGIYDILITIGRSD--DY	113		
QY	121	WGCGFTYIVSS	131		
Db	114	WGKGTLEVYSS	124		

```

RESULT 11
US-09-880-748-974
? Sequence 974, Application US/09880748
? Publication No. US2003005937A1
? GENERAL INFORMATION:
? APPLICANT: Ruben et al.
? TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
? FILE REFERENCE: PF523
? CURRENT APPLICATION NUMBER: US/09/880,748
? CURRENT FILING DATE: 2001-06-15
? PRIOR APPLICATION NUMBER: 60/212,210
? PRIOR FILING DATE: 2000-06-15
? PRIOR APPLICATION NUMBER: 60/240,816
? PRIOR FILING DATE: 2000-10-17
? PRIOR APPLICATION NUMBER: 60/276,248
? PRIOR FILING DATE: 2001-03-16
? PRIOR APPLICATION NUMBER: 60/277,379
? PRIOR FILING DATE: 2001-03-21
? PRIOR APPLICATION NUMBER: 60/293,499
? PRIOR FILING DATE: 2001-05-25
? NUMBER OF SEQ ID NOS: 3239
? SOFTWARE: Patentin Ver. 2.0
? SEQ ID NO 974
? LENGTH: 249
? TYPE: PRT
? ORGANISM: Homo sapiens
? OS-09-880-748-974

```

Query Match	71.9%;	Score	495.5;	DB	11;	Length	249;
Best Local Similarity	76.5%;	Pred. No.	8e-38;				
Matches	101;	Conservative	11;	Mismatches	13;	Indels	7;
						Gaps	3;
QY	1	EVOLLESGVSGCGGLVKNPGGSLRLSCAASGTFESSYMHVVRGCPKPGLEWVSSISNSMT	60				
Db	1	EVOL----VQSGGGLVQPGGSLRLSCAASGTFESFNYMTVMVROAPKPGGLEWVSSISNSSS	56				
QY	61	YIYVADAVAKGRTTISRDNAAKSNILYLOMNSLKAETHAVYYCARQSRYSNPLRWVRSD-GMD	119				
Db	57	YIYVADSVYKGRFTTISRDNKNTLYILOMNSLRAEDTAVYYCARE--YYDILITGYPDPYGM	114				
QY	120	VWGQGTFTVVS	131				
Db	115	VWGQGTMTVVS	126				

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Publication No. US20030059937A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1974
LENGTH: 248
TYPE: PRT
ORGANISM: Homo sapiens
US-09-880-748-1974

Query Match
Best Local Similarity 71.8%; Score 494.5; DB 11; Length 248;
Matches 100; Conservative 8; Mismatches 14; Indels 9; Gaps 2;

QY 1 EVQLLESGVSGGGLVPGGSLRLSCAASGFTFSYSHMWVRQPGKGLEWVSISNSNT 60
Db 1 EVQL-----VQSGGGLVPGGSLRLSCAASGFTFSYSHMWVRQPGKGLEWVSISNS 56
QY 61 YIYADAVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARDSRYSFLEWVMSDGDV 120
Db 57 TIYADSVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARDSRYSFLEWVMSDGDV 111
QY 121 WGQGTIVYSS 131
Db 112 WGQGTIVYSS 122

RESULT 13
US-09-880-748-2081
Sequence 2081, Application US/09880748
Publication No. US20030059937A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2081
LENGTH: 262
TYPE: PRT
ORGANISM: Homo sapiens
US-09-880-748-2081

Query Match
Best Local Similarity 71.6%; Score 493.5; DB 11; Length 262;
Matches 100; Conservative 13; Mismatches 7; Indels 23; Gaps 3;
```

```
QY 1 EVQLLESGVSGGGLVPGGSLRLSCAASGFTFSYSHMWVRQPGKGLEWVSISNSNT 60
Db 1 EVQL-----VQSGGGLVPGGSLRLSCAASGFTITINYSNMWRQAPGKGLEWVSIS 56
QY 61 YIYADAVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARDR-----YSN 108
Db 57 YIYADSVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARDFOVWGVEFIANPIYNY 116
QY 109 FLRWVRSDGMDVWGQGTIVYSS 131
Db 117 Y-----GMDVWGQGTIVYSS 132

RESULT 14
US-09-880-748-1634
Sequence 1634, Application US/09880748
Publication No. US20030059937A1
GENERAL INFORMATION:
APPLICANT: Ruben et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
FILE REFERENCE: PF523
CURRENT APPLICATION NUMBER: US/09/880,748
CURRENT FILING DATE: 2001-06-15
PRIOR APPLICATION NUMBER: 60/212,210
PRIOR FILING DATE: 2000-06-15
PRIOR APPLICATION NUMBER: 60/240,816
PRIOR FILING DATE: 2000-10-17
PRIOR APPLICATION NUMBER: 60/276,248
PRIOR FILING DATE: 2001-03-16
PRIOR APPLICATION NUMBER: 60/277,379
PRIOR FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/293,499
PRIOR FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 3239
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1634
LENGTH: 252
TYPE: PRT
ORGANISM: Homo sapiens
US-09-880-748-1634

Query Match
Best Local Similarity 71.5%; Score 492.5; DB 11; Length 252;
Matches 100; Conservative 11; Mismatches 9; Indels 17; Gaps 3;

QY 1 EVQLLESGVSGGGLVPGGSLRLSCAASGFTFSYSHMWVRQPGKGLEWVSISNSNT 60
Db 1 EVQL-----VQSGGGLVPGGSLRLSCAASGFTFSYSHMWVRQAPGKGLEWVSIS 56
QY 61 YIYADAVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARD-----SRYSNFLRWVR 114
Db 57 TIYADSVKGRFTISRDNKNSLYLQNSLRAEHTAVYYCARDSDYDILTYSNY----- 111
QY 115 SDGMDVWGQGTIVYSS 131
Db 112 --GMDVWGQGTIVYSS 126

RESULT 15
US-09-840-459-77
Sequence 77, Application US/09840459
Patent No. US20020150576A1
GENERAL INFORMATION:
APPLICANT: Larosa, Gregory J.
APPLICANT: Horvath, Christopher
APPLICANT: Newman, Walter
APPLICANT: Jones, S. Tarran
APPLICANT: O'Keefe, Theresa
TITLE OF INVENTION: HUMANIZED ANTI-CCR2 ANTIBODIES AND
METHODS OF USE THEREFOR
FILE REFERENCE: 1855.1052-012
```

;; CURRENT APPLICATION NUMBER: US/09/840,459
;; CURRENT FILING DATE: 2001-02-02
;; PRIOR APPLICATION NUMBER: PCT/US01/03537
;; PRIOR FILING DATE: 2001-02-02
;; PRIOR APPLICATION NUMBER: 09/497,625
;; PRIOR FILING DATE: 2000-02-03
;; PRIOR APPLICATION NUMBER: 09/359,193
;; PRIOR FILING DATE: 1999-07-22
;; PRIOR APPLICATION NUMBER: 09/121,781
;; PRIOR FILING DATE: 1998-07-23
;; NUMBER OF SEQ ID NOS: 107
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO: 77
;; LENGTH: 128
;; TYPE: PRT
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: VARIANT
;; LOCATION: (1)..(128)
;; OTHER INFORMATION: Xaa - Any Amino Acid
US-09-840-459-77

Query Match 71.3%; Score 491.5; DB 10; Length 128;
Best Local Similarity 75.48; Pred. No. 9.1e-38;
Matches 101; Conservative 8; Mismatches 16; Indels 9; Gaps 3;
QY 1 EVQLLESGVESGGLVPRGSGLRISCAASGFTTSSISMHWVROGPGKGLEWYSISNSNT 60
Db 1 EVQLLESGVESGGLVPRGSGLRISCAASGFTTSSISMHWVROGPGKGLEWYSISNSNT 60
QY 61 YIYADAVKGRFTISRDNAKNSLYLQMNSLRAEDTAVYICARDSRYSNFLRWVS--DG 117
Db 57 STYYADSVKGRFTISRDNSKNTLYLQMNSLRAEDTAVYICARDSRYSNFLRWVS--DG 114
QY 118 MDVWGSGTIVYSS 131
Db 115 MDVWGSGTIVYSS 128

Search completed: September 24, 2003, 06:46:03
Job time : 467 secs

Result No.	Score	Query Match	Length	DB	ID	Description
1	689	100.0	131	22	05-09-791-557-71784	Sequence 71784, P

2	689	100.0	131	23	US-09-848-798-28	Sequence 28, Appl
3	689	100.0	131	23	US-09-848-798-28	Sequence 28, Appl
4	643	93.3	127	23	US-09-791-537-71782	Sequence 71782, Appl
5	643	93.3	127	23	US-09-848-798-27	Sequence 27, Appl
6	643	93.3	127	23	US-09-848-798-27	Sequence 27, Appl
7	523	76.2	145	22	US-09-791-537-88960	Sequence 88960, Appl
8	523	75.9	134	22	US-09-791-537-96307	Sequence 96307, Appl
9	513.5	74.5	148	22	US-09-791-537-39928	Sequence 39928, Appl
10	511.5	74.2	128	22	US-09-791-537-90526	Sequence 90526, Appl
11	511.5	74.2	256	1	PCT-US01-19110-1318	Sequence 1318, Appl
12	511.5	74.2	256	1	PCT-US02-36496-1318	Sequence 1318, Appl
13	511.5	74.2	256	23	US-09-880-748-1318	Sequence 1318, Appl
14	511.5	74.2	256	28	US-10-293-418-1318	Sequence 1318, Appl
15	509	73.9	248	1	PCT-US01-19110-913	Sequence 913, Appl
16	509	73.9	248	1	PCT-US02-36496-913	Sequence 913, Appl
17	509	73.9	248	23	US-09-880-748-913	Sequence 913, Appl
18	509	73.9	248	28	US-10-293-418-913	Sequence 913, Appl
19	508.5	73.8	124	1	PCT-US02-38450-190	Sequence 190, Appl
20	508.5	73.8	124	29	US-10-308-817-190	Sequence 190, Appl
21	508.5	73.8	125	22	US-09-791-537-31327	Sequence 31327, Appl
22	506.5	73.5	247	1	PCT-US01-19110-1764	Sequence 1764, Appl
23	506.5	73.5	247	1	PCT-US02-36496-1764	Sequence 1764, Appl
24	506.5	73.5	247	23	US-09-880-748-1764	Sequence 1764, Appl
25	506.5	73.5	247	28	US-10-293-418-1764	Sequence 1764, Appl
26	506	73.4	240	1	PCT-US03-02612-9	Sequence 9, Appl
27	506	73.4	240	26	US-10-062-188-9	Sequence 9, Appl
28	506	73.4	257	1	PCT-US03-02612-7	Sequence 7, Appl
29	506	73.4	257	26	US-10-062-188-7	Sequence 7, Appl
30	506	73.4	272	22	US-09-791-537-845	Sequence 845, Appl
31	506	73.4	272	32	US-60-474-850-433	Sequence 433, Appl
32	505.5	73.4	124	22	US-09-791-537-90523	Sequence 90523, Appl
33	504.5	73.2	116	1	PCT-US02-06762-24	Sequence 24, Appl
34	504.5	73.2	116	1	PCT-US02-20332-76	Sequence 76, Appl
35	504.5	73.2	116	1	PCT-US02-41372-76	Sequence 76, Appl
36	504.5	73.2	116	1	PCT-US03-06459-24	Sequence 24, Appl
37	504.5	73.2	116	26	US-10-091-300-24	Sequence 24, Appl
38	504.5	73.2	116	32	US-60-361-783-24	Sequence 24, Appl
39	503.5	73.1	126	22	US-09-791-537-11606	Sequence 11066, Appl
40	503.5	73.1	121	22	US-09-791-537-95958	Sequence 95958, Appl
41	503	73.0	119	22	US-09-791-537-59259	Sequence 59259, Appl
42	503	73.0	123	22	US-09-791-537-78258	Sequence 78258, Appl
43	502	72.9	129	22	US-09-791-537-79333	Sequence 79333, Appl
44	499.5	72.5	116	1	PCT-US02-06762-31	Sequence 31, Appl
45	499.5	72.5	116	1	PCT-US02-20332-83	Sequence 83, Appl

ALIGNMENTS

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RESULT 1
US-09-791-537-71784
; Sequence 71784: Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Blonomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 71784
; LENGTH: 131
; TYPE: PRT
; ORGANISM: synthetic construct
; US-09-791-537-71784

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Query Match	100.0%;	Score 689;	DB 22;	Length 131;
Best Local Similarity	100.0%;	Pred. No. 1.9e-62;		
Matches 131; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0

QY	3	EVOLLSSGYEGSGGLVYKPCGSGRLSCAASGFFSSYSHHWARQDPGKGLEVYSSISNNT	60
	1	EVOLLSSGYEGSGGLVYKPCGSGRLSCAASGFFSSYSHHWARQDPGKGLEVYSSISNNT	60
Db			
QY	61	YIYYAAVYAGRFITSDNANKSLAYLOMNSLRAEHAAVYXCARDSPSYNFLRWVNSDGDVY	120
	61	YIYYAAVYAGRFITSDNANKSLAYLOMNSLRAEHAAVYXCARDSPSYNFLRWVNSDGDVY	120
Db			
QY	121	WGQGTIVYSS	131
Db			
	121	WGQGTIVYSS	131
Db			
	121	WGQGTIVYSS	131

```

RESULT 2
US-09-848-798-28
: Sequence 28, Application US/09848798
: GENERAL INFORMATION:
: APPLICANT: Siegel, Donald L.
: TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
: TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
: FILE REFERENCE: 09596-4302
: CURRENT APPLICATION NUMBER: US/09/848,798
: PRIOR FILING DATE: 2001-05-04
: PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274
: PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29
: PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
: PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-11
: NUMBER OF SEQ ID NOS: 224
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 28
: LENGTH: 131
: TYPE: prt
: ORGANISM: Homo sapiens
: FEATURE:
: OTHER INFORMATION: anti-Rh(D) chain E03
US-09-848-798-28

```

Query Match	100.0%	Score 689;	DB 23;	Length 131;
Best Local Similarity	100.0%;	Pred. No. 1.9e-62;		
Matches 131;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
OY	1	EVQLLESGVSGGGLVPRGGSLRLSCAASGTFPFSSYMHVVRQPGKGLFEMYSINST	60	
	1	EVQLLESGVSGGGLVPRGGSLRLSCAASGTFPFSSYMHVVRQPGKGLFEMYSINST	60	
Db				
OY	61	YIYIADAVVAGRTTISRDNAAKNSLYLQNMSLAEHTAVYYCARDSRSINFLRWYRSGMDY	120	
Db	61	YIYIADAVVAGRTTISRDNAAKNSLYLQNMSLAEHTAVYYCARDSRSINFLRWYRSGMDY	120	
OY	121	WGQGTIVIVSS	131	
Db	121	WGQGTIVIVSS	131	

```

RESULT 3
US-09-848-798A-28
: Sequence 28, Application US/09848798A
: GENERAL INFORMATION:
: APPLICANT: Siegel, Donald L.
: TITLE OF INVENTION: Rh(O)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
: TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
: FILE REFERENCE: 09596-4202
: CURRENT APPLICATION NUMBER: US/09/848,798A
: PRIORITY FILING DATE: 2001-05-04
: PRIOR APPLICATION NUMBER: 09/240,274
: PRIOR FILING DATE: 1999-05-02
: PRIOR APPLICATION NUMBER: 60/028,550
: PRIOR FILING DATE: 1996-10-11
: NUMBER OF SEQ ID NOS: 224
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 28
:
: LENGTH: 131
: TYPE: PR1

```

```

; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E03
US-09-848-798A-28

Query Match      100.0%   Score 689; DB 23;
Best Local Similarity 100.0%   Pred. NO. 1.9e-6;
Matches 131; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Oy	EVQLLEGGVSGGGGLYKPGASLR	LTCAAGAGFPESSYSMHWNRQ	QPGKCLEWVSISNSNT	60
Db	1	EVQLLEGGVSGGGGLYKPGASLR	LTCAAGFPESSYSMHWNRQ	QPGKCLEWVSISNSNT 60
Oy	61	YIYAADVAVGRFTISDNNKNSLY	IQMNSLRAREHRAVYYCARDSRY	SNFLRWVSDMDV 120
Db	61	YIYAADVAVGRFTISDNNKNSLY	IQMNSLRAREHRAVYYCARDSRY	SNFLRWVSDMDV 120
Oy	121	WGQGTIVYVS	131	
Db	121	WGQGTIVYVS	131	

```

RESULT 4
US-09-791-71782
: Sequence 71782, Application US/09791537
: GENERAL INFORMATION:
: APPLICANT: Bionomix, Inc.
: APPLICANT: Debe, Derek
: APPLICANT: Dapper, Joseph
: TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS
: TITLE OF INVENTION: METHODS OF USE THEREOF
: FILE REFERENCE: 261/210
: CURRENT APPLICATION NUMBER: US/09/791,537
: CURRENT FILING DATE: 2001-02-22
: NUMBER OF SEQ ID NOS: 153055
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 71782
: LENGTH: 127
: TYPE: PRT
: ORGANISM: synthetic construct
US-09-791-537-71782

```

	Query Match	Similarity	93.3%	Score 643	DB 22	Length 127
	Best Local	Similarity	95.4%	Pred. No. 1e-57		
Matches	125	Conservative	0	Mismatches	2	Indels
					4	Gaps
						1
QY	1	EVOLLESVEGGGGLVPGGSLRLSCAAGTFFSSYSHHWYRQGGKLEWVSSISNNT	60			
Db	1	EVOLL----EEGGGLVPRGSSLRSLSCAAGTFFSSYSHHWYRQGGKLEWVSSISNNT	56			
QY	61	YIYAADAVKGFRTTSRDNAKNSLYLQNNSLAEHTAYVYCARDSRYSNFLKRWSDGDY	120			
Db	57	YIYAADAKGFRFTTSRDNAKNSLYLQNNSLAEHTAYVYCARDSRTSNFLKRWSDGDY	116			
QY	121	WGCGTIVLVSS	131			
Db	117	WGCGTIVLVSS	127			

RESULT 5
US-09-848-798-27
Sequence 27, Application US/09848798
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/848,798
CURRENT FILING DATE: 2001-05-04
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274
PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29
PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-11

```

; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E011s
US-09-848-798-27
```

```

Query Match          93.3%; Score 643; DB 23; Length 127;
Best Local Similarity 95.4%; Pred. No. 1e-57;
Matches 125; Conservative 0; Mismatches 2; Indels 4; Gaps 1;
```

```

QY 1 EVOLLESGVSGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 EVQLL-----ESGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISNSNT 56
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 YIYADAVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARDSRYSNFLRWVRSDGMDV 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 57 YIYADAVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARDSRYSNFLRWVRSDGMDV 116
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 WGCGTTVIYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 117 WGCGTTVIYSS 127
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

RESULT 6

```

US-09-848-798a-27
; Sequence 27, Application US/09848798A
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; FILE REFERENCE: 09596-4202
; CURRENT APPLICATION NUMBER: US/09/848,798A
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: 09/240,274
; PRIOR FILING DATE: 1999-05-02
; PRIOR APPLICATION NUMBER: 60/028,550
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E011s
US-09-848-798a-27
```

```

Query Match          93.3%; Score 643; DB 23; Length 127;
Best Local Similarity 95.4%; Pred. No. 1e-57;
Matches 125; Conservative 0; Mismatches 2; Indels 4; Gaps 1;
```

```

QY 1 EVOLLESGVSGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 EVQLL-----ESGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISNSNT 56
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 YIYADAVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARDSRYSNFLRWVRSDGMDV 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 57 YIYADAVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARDSRYSNFLRWVRSDGMDV 116
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 WGCGTTVIYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 117 WGCGTTVIYSS 127
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

```

RESULT 7
US-09-791-537-88960
; Sequence 88960, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
```

```

; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 88960
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-537-88960
```

```

Query Match          76.2%; Score 525; DB 22; Length 145;
Best Local Similarity 80.9%; Pred. No. 1.7e-45;
Matches 106; Conservative 7; Mismatches 12; Indels 6; Gaps 2;
```

```

QY 1 EVOLLESGVSGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 20 EVQL-----VESGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISSSS 75
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 YIYADAVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARDSRYSNFLRWVRSDGMDV 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 76 YIYADSVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARDVEAATVTTY--GMDV 133
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 121 WGCGTTVIYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 134 WGCGTTVIYSS 144
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

RESULT 8

```

US-09-791-537-96307
; Sequence 96307, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY ME
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 96307
; LENGTH: 134
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-537-96307
```

```

Query Match          75.9%; Score 523; DB 22; Length 134;
Best Local Similarity 79.7%; Pred. No. 2.5e-45;
Matches 106; Conservative 7; Mismatches 14; Indels 6; Gaps 2;
```

```

QY 1 EVOLLESGVSGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 EVQL-----VESGGGLVKKPGGSLRLSCAASGFTFSYSMHWVROGPKGLEWVSSISSSS 56
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 61 YIYADAVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARDSR--YSNFLRWVRSDGM 118
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 57 YIYADSVKGRFTISRDNKNSLYIQMNSLRAEDTAIVYVCARGGLMPELLSTYYIYGM 116
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 119 DWGCGTTVIYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 117 DWGCGTTVIYSS 129
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

```

RESULT 9
US-09-791-537-39928
; Sequence 39928, Application US/09791537
; GENERAL INFORMATION:
```

```

; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 39928
; LENGTH: 148
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-537-39928
```

Query Match 74.5%; Score 513.5; DB 22; Length 148;
Best Local Similarity 80.2%; Pred. No. 2,6e-44;
Matches 105; Conservative 7; Mismatches 10; Indels 9; Gaps 3;

```

OY 1 EVOLLESGVSGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROGPGKLEWVSSISNSNT 60
    ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 20 EVOL-----VESGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROAPGKLEWVSSISSSS 75
OY 61 YIYVADAVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARDKRSNFKLWVSDGDV 120
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 76 YIYVADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARDLNG---OML-VQGEDY 130
OY 121 WGCGTIVVSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 131 WGCGTLVTYVS 141
```

```

RESULT 10
US-09-791-537-90526
; Sequence 90526, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBE
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 90526
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-791-537-90526
```

Query Match 74.2%; Score 511.5; DB 22; Length 128;
Best Local Similarity 80.5%; Pred. No. 3,6e-44;
Matches 107; Conservative 7; Mismatches 12; Indels 7; Gaps 3;

```

OY 1 EVOLLESGVSGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROGPGKLEWVSSISNSNT 60
    ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 1 EVOL-----VESGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROAPGKLEWVSSISSSS 56
OY 61 YIYVADAVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARDKRSNFKLWVSDGDV 118
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 57 YIYVADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARDNYVSSGSLRRYYY-CM 115
OY 119 DVMGCGTIVVSS 131
    ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 116 DVMGCGTIVVSS 128
```

RESULT 11
PCT-US01-19110-1318
; Sequence 1318, Application PC/TUS0119110

```

; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PE523PCT
; CURRENT APPLICATION NUMBER: PCT/US01/19110
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/212,210
; PRIOR FILING DATE: 2000-06-15
; PRIOR APPLICATION NUMBER: 60/240,816
; PRIOR FILING DATE: 2000-10-17
; PRIOR APPLICATION NUMBER: 60/276,248
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 60/277,379
; PRIOR FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/293,499
; PRIOR FILING DATE: 2001-05-25
; NUMBER OF SEQ ID NOS: 3239
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1318
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US01-19110-1318
```

Query Match 74.2%; Score 511.5; DB 1; Length 256;
Best Local Similarity 78.2%; Pred. No. 8,2e-44;
Matches 104; Conservative 11; Mismatches 11; Indels 7; Gaps 3;

```

OY 1 EVOLLESGVSGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROGPGKLEWVSSISNSNT 60
    ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 1 EVOL-----VOSGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROAPGKLEWVSSISSSS 56
OY 61 YIYVADAVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARD-SRYSNFKLWVRSD--G 117
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 57 YIYVADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARDLGSFYDILALRLNENY 116
OY 118 MDVWGCGTIVVSS 130
    ||||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 117 MDVWGCGTLVTVS 129
```

```

RESULT 12
PCT-US02-36496-1318
; Sequence 1318, Application PC/TUS0236496
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
; FILE REFERENCE: PE523PCT2
; CURRENT APPLICATION NUMBER: PCT/US02/36496
; CURRENT FILING DATE: 2002-11-14
; PRIOR APPLICATION NUMBER: 60/331,469
; PRIOR FILING DATE: 2001-11-16
; PRIOR APPLICATION NUMBER: 60/340,817
; PRIOR FILING DATE: 2001-12-19
; NUMBER OF SEQ ID NOS: 3247
; SEQ ID NO 1318
; LENGTH: 256
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US02-36496-1318
```

Query Match 74.2%; Score 511.5; DB 1; Length 256;
Best Local Similarity 78.2%; Pred. No. 8,2e-44;
Matches 104; Conservative 11; Mismatches 11; Indels 7; Gaps 3;

```

OY 1 EVOLLESGVSGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROGPGKLEWVSSISNSNT 60
    ||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 1 EVOL-----VOSGGGLVKGPGSLRLSCAASGFTFSYSMMHWVROAPGKLEWVSSISSSS 56
OY 61 YIYVADAVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARD-SRYSNFKLWVRSD--G 117
    ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| ||||||| |||||||
DB 57 YIYVADSVKGRFTISRDNKNSLYLQMSLRAEDTAVYYCARDLGSFYDILALRLNENY 116
```


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APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: COMPOSITIONS, METHODS AND KITS RELATING TO ANTI-PLATELET
FILE REFERENCE: 053893-5050MO
CURRENT APPLICATION NUMBER: PCT/US03/21304
CURRENT FILING DATE: 2003-07-03
PRIOR APPLICATION NUMBER: 60/394,356
PRIOR FILING DATE: 2003-07-03
PRIOR APPLICATION NUMBER: 60/411,694
PRIOR FILING DATE: 2003-09-18
NUMBER OF SEQ ID NOS: 153
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 56
LENGTH: 123
TYPE: PRT
ORGANISM: Homo sapiens
PCT-US03-21304-56

Query Match 73.6%; Score 507; DB 1; Length 123;
Best Local Similarity 79.5%; Pred. No. 5.8e-35;
Matches 105; Conservative 8; Mismatches 9; Indels 10; Gaps 4;

QY 1 EVOLLESGVSGGLVPRGSLRLSCAASGFTFSYSHMWROGPGKLEWVSSISNSNT 60
DB 1 EVOLLESGVSGGLVPRGSLRLSCAASGFTFSYSHMWROGPGKLEWVSSISNSNT 56
QY 61 YIYVADAVKGRFTISRDNKNSLYLQMNSLRAETHAVYYCARDSRYSNFLRWVRSQGM-D 119
DB 57 YIYVADSVKGRFTISRDNKNSLYLQMNSLRAEDTAVYYCARD--HPNY---YDSSGLFD 111
QY 120 WVGQGTIVYSS 131
DB 112 WVGQGTIVYSS 123

RESULT 3
PCT-US03-25457-53
Sequence 53, Application PC/TUS0325457
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind to TRAIL
FILE REFERENCE: PF550PCT2
CURRENT APPLICATION NUMBER: PCT/US03/25457
CURRENT FILING DATE: 2003-08-15
PRIOR APPLICATION NUMBER: 60/468,050
PRIOR FILING DATE: 2003-05-06
PRIOR APPLICATION NUMBER: 60/425,730
PRIOR FILING DATE: 2002-11-13
PRIOR APPLICATION NUMBER: 60/403,382
PRIOR FILING DATE: 2002-08-15
NUMBER OF SEQ ID NOS: 70
SEQ ID NO: 53
LENGTH: 249
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: T1006F07 scfv
PCT-US03-25457-53

Query Match 70.8%; Score 488; DB 1; Length 249;
Best Local Similarity 75.8%; Pred. No. 3.8e-33;
Matches 100; Conservative 9; Mismatches 15; Indels 8; Gaps 3;
QY 1 EVOLLESGVSGGLVPRGSLRLSCAASGFTFSYSHMWROGPGKLEWVSSISNSNT 60
DB 1 EVOLLESGVSGGLVPRGSLRLSCAASGFTFSYSHMWROGPGKLEWVSSISNSNT 56
QY 61 YIYVADAVKGRFTISRDNKNSLYLQMNSLRAETHAVYYCARDSRYSNFLRWVRSQGM-D 119
DB 57 YIYVADSVKGRFTISRDNKNSLYLQMNSLRAEDTAVYYCARD--PSFQOMGHYSYQMD 113
QY 120 WVGQGTIVYSS 131

DB 114 WVGQGTIVYSS 125

RESULT 4
US-09-138-091A-73
Sequence 73, Application US/09138091A
GENERAL INFORMATION:
APPLICANT: Adams, Camellia W.
APPLICANT: Carter, Paul J.
APPLICANT: Feendly, Brian M.
APPLICANT: Gurney, Austin L.
TITLE OF INVENTION: Agonist Antibodies
FILE REFERENCE: 9491-013-27
CURRENT APPLICATION NUMBER: US/09/138,091A
CURRENT FILING DATE: 1998-08-21
PRIOR APPLICATION NUMBER: US 60/056,736
PRIOR FILING DATE: 1997-08-22
NUMBER OF SEQ ID NOS: 77
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 73
LENGTH: 245
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: single chain antibody (scfv) fragments
US-09-138-091A-73

Query Match 69.6%; Score 479.5; DB 5; Length 245;
Best Local Similarity 72.5%; Pred. No. 1.8e-32;
Matches 95; Conservative 8; Mismatches 15; Indels 13; Gaps 2;

QY 1 EVOLLESGVSGGLVPRGSLRLSCAASGFTFSYSHMWROGPGKLEWVSSISNSNT 60
DB 3 EVOLLESGVSGGLVPRGSLRLSCAASGFTFSYSHMWROGPGKLEWVSSISNSNT 58
QY 61 YIYVADAVKGRFTISRDNKNSLYLQMNSLRAETHAVYYCARDSRYSNFLRWVRSQGM-D 120
DB 59 YIYVADSVKGRFTISRDNKNSLYLQMNSLRAEDTAVYYCA-----RMSGEDAFDI 109
QY 121 WVGQGTIVYSS 131
DB 110 WVGQGTIVYSS 120

RESULT 5
US-10-645-215-6
Sequence 6, Application US/10645215
GENERAL INFORMATION:
APPLICANT: Adolf, Guenther
APPLICANT: Baum, Anke
APPLICANT: Heider, Karl-Heinz
TITLE OF INVENTION: Compositions and Methods for Treating Cancer using
TITLE OF INVENTION: Cytotoxic CD4 Antibody Immunoadjuvates and
FILE REFERENCE: 1/1383
CURRENT APPLICATION NUMBER: US/10/645,215
CURRENT FILING DATE: 2003-08-21
PRIOR APPLICATION NUMBER: EP 02 018 686.2
PRIOR FILING DATE: August 21, 2002
PRIOR APPLICATION NUMBER: US 60/405,956
PRIOR FILING DATE: August 26, 2002
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 6
LENGTH: 444
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Humanised Murine Antibody Biwa 4 Heavy Chain
US-10-645-215-6

Query Match 69.3%; Score 477.5; DB 6; Length 444;

Best Local Similarity 72.5%; Pred. No. 4.4e-32;
Matches 95; Conservative 7; Mismatches 12; Indels 17; Gaps 2;

```
OY 1 EVOLLESGVGGGLVKGSGSLRLSCAASGFTFSYSMHWRQGGKLEWVSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 EVOL---VESGGGLVKGSGSLRLSCAASGFTFSYSMDWVRQAGKGLEWVSISGGS 56
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 61 YYYADAVKGRFTTISRDNKNSLYLQMSLRAEHTAVYYCARDSTRYSNPLRWVRSDGMDV 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 57 YTYVDSYKGRFTTISRDNKNSLYLQMSLRAEDTAIVYYCAR-----QGIDY 103
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 121 WGQGTIVYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 104 WGRGTLVTVSS 114
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

RESULT 6
PCT-US03-23826-44
Sequence 44, Application PC/TUS0323826

GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc.
TITLE OF INVENTION: Antibodies Against C3a Receptor
FILE REFERENCE: PF588PCT
CURRENT APPLICATION NUMBER: PCT/US03/23826
CURRENT FILING DATE: 2003-07-31
PRIOR APPLICATION NUMBER: 60/400,057
PRIOR FILING DATE: 2002-08-02
NUMBER OF SEQ ID NOS: 50
SEQ ID NO 44
LENGTH: 247
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: D185G07 scfv
PCT-US03-23826-44

Query Match 68.9%; Score 475; DB 1; Length 247;

Best Local Similarity 72.3%; Pred. No. 4.3e-32;

Matches 94; Conservative 10; Mismatches 16; Indels 10; Gaps 2;

```
OY 1 EVOLLESGVGGGLVKGSGSLRLSCAASGFTFSYSMHWRQGGKLEWVSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 QVOL---VESGGGLVKGSGSLRLSCAASGFTFSYDVMWRQAPGKGLEWVSISSSSS 56
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 61 YYYADAVKGRFTTISRDNKNSLYLQMSLRAEHTAVYYCARDSTRYSNPLRWVRSDGMDV 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 57 YTYVDSYKGRFTTISRDNKNSLYLQMSLRAEDTAIVYYCARPPDYDST-----DARDI 110
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 121 WGQGTIVYSS 130
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 111 WKGTLVTVSS 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

RESULT 7
US-10-469-304-17
Sequence 17, Application US/10469304

GENERAL INFORMATION:
APPLICANT: KIRIN BEER KABUSHIKI KAISHA
TITLE OF INVENTION: Anti HLA-DR antibody
FILE REFERENCE: PH-1646-PCT
CURRENT APPLICATION NUMBER: US/10/469,304
CURRENT FILING DATE: 2003-08-29
PRIOR APPLICATION NUMBER: JP2001/317054
PRIOR FILING DATE: 2001-10-15
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 17
LENGTH: 143
TYPE: PRT
ORGANISM: Homo sapiens
US-10-469-304-17

Query Match 67.2%; Score 463; DB 6; Length 143;

Best Local Similarity 71.8%; Pred. No. 2.5e-31;
Matches 94; Conservative 8; Mismatches 21; Indels 8; Gaps 2;

```
OY 1 EVOLLESGVGGGLVKGSGSLRLSCAASGFTFSYSMHWRQGGKLEWVSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 20 EVOLL---ESGGGLVKGSGSLRLSCAASGFTFSYAMTWVRQAGKGLEWVSISGGGD 75
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 61 YYYADAVKGRFTTISRDNKNSLYLQMSLRAEHTAVYYCARDSTRYSNPLRWVRSDGMDV 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 76 STYYADSVKGRFTTISRDNKNSLYLQMSLRAEDTAIVYYCARDHSGSYTPY---WPDY 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 121 WGQGTIVYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 132 WQGTIVTVSS 142
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

RESULT 8
PCT-US02-26584-3
Sequence 3, Application PC/TUS0226584

GENERAL INFORMATION:
APPLICANT: HOOPER, Craig
TITLE OF INVENTION: Recombinant Antibodies, and Compositions
TITLE OF INVENTION: and Methods for Making Them
FILE REFERENCE: 8321-110 PC
CURRENT APPLICATION NUMBER: PCT/US02/26584
CURRENT FILING DATE: 2002-08-21
PRIOR APPLICATION NUMBER: US 60/314,023
PRIOR FILING DATE: 2001-08-21
NUMBER OF SEQ ID NOS: 16
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 474
TYPE: PRT
ORGANISM: Homo sapiens
PCT-US02-26584-3

Query Match 67.2%; Score 463; DB 1; Length 474;

Best Local Similarity 71.8%; Pred. No. 7.1e-31;

Matches 94; Conservative 11; Mismatches 20; Indels 6; Gaps 2;

```
OY 1 EVOLLESGVGGGLVKGSGSLRLSCAASGFTFSYSMHWRQGGKLEWVSISNSNT 60
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 20 EVOLL---ESGGGLVKGSGSLRLSCAASGFTFSYAMTWVRQAGKGLEWVSISASGH 75
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 61 YYYADAVKGRFTTISRDNKNSLYLQMSLRAEHTAVYYCARDSTRYSNPLRWVRSDGMDV 120
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 76 STYYADSVKGRFTTISRDNKNSLYLQMSLRAEDTAIVYYCARDREVIMIV--VINGPFDY 133
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
OY 121 WGQGTIVYSS 131
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 134 WQGTIVTVSS 144
    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
```

RESULT 9
US-09-723-752B-11
Sequence 11, Application US/09723752B

GENERAL INFORMATION:
APPLICANT: Baca, Manuel
Wells, James A.
Presta, Leonard G.
Lowman, Henry B.
Chen, Yvonne M.
TITLE OF INVENTION: ANTI-VEGF ANTIBODIES
NUMBER OF SEQUENCES: 131
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: WinPatlin (Genentech)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/723,752B
 FILING DATE: 27-Nov-2000
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/908469
 FILING DATE: 06-AUG-1997
 APPLICATION NUMBER: 08/833504
 FILING DATE: 07-APR-1997
 ATTORNEY/AGENT INFORMATION:
 NAME: Cui, Steven X.
 REGISTRATION NUMBER: 44,637
 REFERENCE/DOCKET NUMBER: P1093P1D1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 650/225-8674
 TELEFAX: 650/952-9881
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 113 amino acids
 TYPE: Amino Acid
 TOPOLOGY: Linear
 US-09-723-752B-11
 SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Query Match 66.8%; Score 460; DB 5; Length 113;
 Best Local Similarity 71.8%; Pred. No. 3,6e-31;
 Matches 94; Conservative 5; Mismatches 14; Indels 18; Gaps 2;

QY 1 EVOLLESVSGGLVPGGSLRLSCAASGFTSSYSMHWVROGPGKLEWVSISNSNT 60
 1 EVOL-ESGCGLVOPGGSRLSCAASGFTSSYSMHWVROGPGKLEWVSISNSGCG 56
 DB 61 YIYADVAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSPYSLRWVRSQMDV 120
 57 STYVADSKRGFTISRDNKNTLYLQMSLRAEDTAVYYCAR-----GPDY 102
 QY 121 WGGGTIVYSS 131
 103 WGGGTIVYSS 113
 DB 103 WGGGTIVYSS 113

RESULT 10
 PCT-US03-15937-53
 Sequence 53, Application PC/TUS0315937
 GENERAL INFORMATION:
 APPLICANT: Hematech, LLC et al.
 TITLE OF INVENTION: Transgenic Ungulates Capable of Human
 TITLE OF INVENTION: Antibody Production
 FILE REFERENCE: 50195/012M02
 CURRENT APPLICATION NUMBER: PCT/US03/15937
 CURRENT FILING DATE: 2003-07-28
 PRIOR APPLICATION NUMBER: US 60/381,531
 PRIOR FILING DATE: 2002-05-17
 PRIOR APPLICATION NUMBER: US 60/425,056
 PRIOR FILING DATE: 2002-11-08
 NUMBER OF SEQ ID NOS: 94
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 53
 LENGTH: 131
 TYPE: PRT
 ORGANISM: Bovine
 PCT-US03-15937-53

Query Match 66.5%; Score 458; DB 1; Length 131;
 Best Local Similarity 74.8%; Pred. No. 6e-31;
 Matches 89; Conservative 6; Mismatches 14; Indels 10; Gaps 1;
 QY 13 GGLVPGGSLRLSCAASGFTSSYSMHWVROGPGKLEWVSISNSNTIYADVAVKGRF 72
 13 GGLVPGGSLRLSCAASGFTSSYSMHWVROGPGKLEWVSISNSNTIYADVAVKGRF 72

DB 1 GGLVPGGSLRLSCAASGFTSSYSMHWVROGPGKLEWVSISNSGFTIYADVAVKGRF 60
 QY 73 TISRDNKNSLYLQMSLRAEHTAVYYCARDSPYSLRWVRSQMDVWGGGTIVYSS 131
 DB 61 TISRDNKNSLYLQMSLRAEDTAVYYCAR-----ITGDAFDWGGGTIVYSS 109

RESULT 11
 US-10-031-722A-2
 Sequence 2, Application US/10031722A
 GENERAL INFORMATION:
 APPLICANT: Medarex, Inc.
 TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HER2/NEU
 FILE REFERENCE: MXI-160PC
 CURRENT APPLICATION NUMBER: US/10/031,722A
 CURRENT FILING DATE: 2000-07-25
 PRIOR APPLICATION NUMBER: USSN 60/146,313
 PRIOR FILING DATE: 1999-07-28
 PRIOR APPLICATION NUMBER: USSN 60/188,539
 PRIOR FILING DATE: 1999-03-10
 NUMBER OF SEQ ID NOS: 13
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 2
 LENGTH: 124
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-10-031-722A-2

Query Match 66.4%; Score 457.5; DB 6; Length 124;
 Best Local Similarity 71.0%; Pred. No. 6,2e-31;
 Matches 93; Conservative 10; Mismatches 21; Indels 7; Gaps 2;

QY 1 EVOLLESVSGGLVPGGSLRLSCAASGFTSSYSMHWVROGPGKLEWVSISNSNT 60
 1 EVOL-ESGCGLVOPGGSRLSCAASGFTSSYAMTWVROGPGKLEWVSISNSGCG 56
 DB 61 YIYADVAVKGRFTISRDNKNSLYLQMSLRAEHTAVYYCARDSPYSLRWVRSQMDV 120
 57 STYVADSKRGFTISRDNKNTLYLQMSLRAEDTAVYYCARDSPYSLRWVRSQMDV 113
 QY 121 WGGGTIVYSS 131
 114 WGGGTIVYSS 124
 DB 114 WGGGTIVYSS 124

RESULT 12
 PCT-US03-26779-46
 Sequence 46, Application PC/TUS0326779
 GENERAL INFORMATION:
 APPLICANT: Turner, Christopher P.
 APPLICANT: Sadeghi, Homayoun
 TITLE OF INVENTION: Transferrin Fusion Protein Libraries
 FILE REFERENCE: 054710-5007-WO
 CURRENT APPLICATION NUMBER: PCT/US03/26779
 CURRENT FILING DATE: 2003-08-26
 PRIOR APPLICATION NUMBER: US 60/406,977
 PRIOR FILING DATE: 2002-08-30
 PRIOR APPLICATION NUMBER: US 10/384,060
 PRIOR FILING DATE: 2003-03-10
 PRIOR APPLICATION NUMBER: US 60/485,404
 PRIOR FILING DATE: 2003-07-09
 NUMBER OF SEQ ID NOS: 75
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 46
 LENGTH: 223
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc.feature
 OTHER INFORMATION: VH region of anti-TNF-alpha antibody, Gen Bank No. BAB18250
 PCT-US03-26779-46

```
Query Match      66.0%; Score 454.5; DB 1; Length 223;
Best Local Similarity 70.2%; Pred. No. 1.8e-30;
Matches 92; Conservative 10; Mismatches 16; Indels 13; Gaps 2;

QY 1 EVOLLESGVSGGLVKGPGSLRLSCAASGFTFSYSMHWVQGGKLEWVSSISNSNT 60
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 1 QVOLL-----ESGGVAVQPGRLRLSCAASGFTFSYGMHWVQAPGKLEWVAVISYDGS 56
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 61 YYYVADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYVCARDSRYSNFLRWVRSDGMV 120
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 57 NKYYADSVKGRFTISRDNKNSLYLQMSLRAEDTAIVYICARDSDGLAF-----DI 107
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 121 WGGGTTVIYSS 131
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 108 WGGGTMVTVYSS 118
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

RESULT 13
PCT-US03-26744-90
; Sequence 90, Application PC/TUS0326744
; GENERAL INFORMATION:
; APPLICANT: SADEGH, Homayoun
; APPLICANT: PRIOR, Christopher P.
; APPLICANT: TURNER, Andrew
; TITLE OF INVENTION: MODIFIED TRANSFERIN-ANTIBODY FUSION PROTEINS
; FILE REFERENCE: 54710-5004-MO
; CURRENT APPLICATION NUMBER: PCT/US03/26744
; CURRENT FILING DATE: 2003-08-28
; PRIOR APPLICATION NUMBER: US 60/406,977
; PRIOR FILING DATE: 2002-08-30
; PRIOR APPLICATION NUMBER: US 10/384,060
; PRIOR FILING DATE: 2003-03-10
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 90
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: VH region of anti-TNF-alpha antibody, Gen Bank No. BAB18250
PCT-US03-26744-90

Query Match      66.0%; Score 454.5; DB 1; Length 223;
Best Local Similarity 70.2%; Pred. No. 1.8e-30;
Matches 92; Conservative 10; Mismatches 16; Indels 13; Gaps 2;

QY 1 EVOLLESGVSGGLVKGPGSLRLSCAASGFTFSYSMHWVQGGKLEWVSSISNSNT 60
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 1 QVOLL-----ESGGVAVQPGRLRLSCAASGFTFSYGMHWVQAPGKLEWVAVISYDGS 56
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 61 YYYVADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYVCARDSRYSNFLRWVRSDGMV 120
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 57 NKYYADSVKGRFTISRDNKNSLYLQMSLRAEDTAIVYICARDSDGLAF-----DI 107
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 121 WGGGTTVIYSS 131
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 108 WGGGTMVTVYSS 118
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

RESULT 14
US-60-485-404-46
; Sequence 46, Application US/60485404
; GENERAL INFORMATION:
; APPLICANT: Prior, Christopher P.
; APPLICANT: Turner, Andrew J.
; APPLICANT: Sadeghi, Homayoun
; TITLE OF INVENTION: Transferin Fusion Protein Libraries
; FILE REFERENCE: 054710-5007-PR
; CURRENT APPLICATION NUMBER: US/60/485,404
; CURRENT FILING DATE: 2003-07-09
; PRIOR APPLICATION NUMBER: US 10/231,494
; PRIOR FILING DATE: 2002-08-30
```

```
; PRIOR APPLICATION NUMBER: US 60/406,997
; PRIOR FILING DATE: 2002-08-30
; PRIOR APPLICATION NUMBER: US 10/384,060
; PRIOR FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: US 60/460,829
; PRIOR FILING DATE: 2003-04-08
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 46
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: VH region of anti-TNF-alpha antibody, Gen Bank No. BAB18250
US-60-485-404-46

Query Match      66.0%; Score 454.5; DB 7; Length 223;
Best Local Similarity 70.2%; Pred. No. 1.8e-30;
Matches 92; Conservative 10; Mismatches 16; Indels 13; Gaps 2;

QY 1 EVOLLESGVSGGLVKGPGSLRLSCAASGFTFSYSMHWVQGGKLEWVSSISNSNT 60
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 1 QVOLL-----ESGGVAVQPGRLRLSCAASGFTFSYGMHWVQAPGKLEWVAVISYDGS 56
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 61 YYYVADAVKGRFTISRDNKNSLYLQMSLRAEHTAVYVCARDSRYSNFLRWVRSDGMV 120
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 57 NKYYADSVKGRFTISRDNKNSLYLQMSLRAEDTAIVYICARDSDGLAF-----DI 107
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 121 WGGGTTVIYSS 131
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 108 WGGGTMVTVYSS 118
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

RESULT 15
PCT-US03-26232-146
; Sequence 146, Application PC/TUS0326232
; GENERAL INFORMATION:
; APPLICANT: ARGENIX, INC.
; APPLICANT: GUDAS, Jean M.
; APPLICANT: HAAK-FRENDSCHO, Mary
; APPLICANT: FOORD, Orle
; APPLICANT: LIANG, Meina L.
; APPLICANT: AHLUWALIA, Kiran
; APPLICANT: BHAKTA, Sunil
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO MONOCYTE
; FILE REFERENCE: CHEMO-ATTRACTANT PROTEIN-1 (MCP-1) AND USES THEREOF
; CURRENT APPLICATION NUMBER: PCT/US03/26232
; CURRENT FILING DATE: 2003-08-19
; PRIOR APPLICATION NUMBER: US 60/404,802
; PRIOR FILING DATE: 2002-08-19
; NUMBER OF SEQ ID NOS: 149
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 146
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Homosapien
PCT-US03-26232-146

Query Match      65.7%; Score 453; DB 1; Length 145;
Best Local Similarity 73.8%; Pred. No. 1.7e-30;
Matches 90; Conservative 10; Mismatches 16; Indels 6; Gaps 2;

QY 10 ESGGGLVKGPGSLRLSCAASGFTFSYSMHWVQGGKLEWVSSISNSNTYYYADAVK 69
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 2 QSGGCVAVQPGRLRLSCAASGFTFSYGMHWVQAPGKLEWVAIVTDGNKKYADSVK 61
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 70 GRFTISRDNKNSLYLQMSLRAEHTAVYVCARDSRYSNFLRWVRSDGMVGGGTTVIY 129
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :
Db 62 GRFTISRDNKNSLYLQMSLRAEDTAIVYICARDS--SSYYY-----GMDVGGGTTVIY 115
    :||||| :||||| :||||| :||||| :||||| :||||| :||||| :||||| :

QY 130 SS 131
```

Wed Sep 24 09:31:30 2003

us-09-848-798a-28.rapn

Page 6

Db 116 SS 117

Search completed: September 24, 2003, 06:38:05
Job time : 90 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 22:39:53 ; Search time 2208 Seconds

(without alignments)
7281.469 Million cell updates/sec

Title: US-09-848-798A-97

Perfect score: 393
Sequence: 1 gaggtcagctcgtcgtcgtc.....ccacgctcgtctctctca 393

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 60 summaries

Database : GenBank:*

1: gb_ba:*
2: gb_hcg:*
3: gb_in:*
4: gb_pat:*
5: gb_ov:*
6: gb_ph:*
7: gb_pl:*
8: gb_pr:*
9: gb_ro:*
10: gb_sts:*
11: gb_sy:*
12: gb_un:*
13: gb_vl:*
14: gb_yi:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vl:*
30: em_hcg_hum:*
31: em_hcg_inv:*
32: em_hcg_other:*
33: em_hcg_mus:*
34: em_hcg_pln:*
35: em_hcg_rtd:*
36: em_hcg_mam:*
37: em_hcg_vrt:*
38: em_sy:*
39: em_hgtgo_hum:*
40: em_hgtgo_mus:*
41: em_hgtgo_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	393	100.0	393	6	ARI60968	ARI60968 Sequence
2	393	100.0	393	12	AF044446	AF044446 Synthetic
3	363.6	92.5	381	6	ARI60967	ARI60967 Sequence
4	363.6	92.5	381	12	AF044445	AF044445 Synthetic
5	306	77.9	435	9	HS4234196	AJ234196 Homo sapi
6	296.2	75.4	396	9	HS4519295	AJ519295 Homo sapi
7	294	74.8	378	9	AB066972	AB066972 Homo sapi
8	293.6	74.7	435	9	AF062202	AF062202 Homo sapi
9	293.2	74.6	402	9	HS4389193	AJ389193 Homo sapi
10	291.6	74.2	378	9	HS4519292	AJ519292 Homo sapi
11	288.2	73.3	384	9	HS077374	U77374 Homo sapi
12	286.6	72.9	385	9	H06VH3H	D83682 Human mRNA
13	284.8	72.5	438	9	AF032350	AF032350 Homo sapi
14	284	72.3	372	9	AF170095	AF170095 Homo sapi
15	283	72.0	387	9	HS4555251	AJ555521 Homo sapi
16	279.6	71.1	375	9	AF174081	AF174081 Homo sapi
17	278.8	70.9	389	9	HSY12442	Y12442 H. sapiens
18	278.6	70.9	384	9	AF466106	AF466106 Homo sapi
19	278.6	70.9	384	9	AF466107	AF466107 Homo sapi
20	278.6	70.9	441	9	HSR09221	X81751 H. sapiens
21	278	70.7	429	9	AY190818	AY190818 Homo sapi
22	277.2	70.5	378	9	HS4271554	AJ271554 Homo sapi
23	277.2	70.5	381	9	U00501	U00501 Human
24	277.2	70.5	524	9	H0MIGH2I	L29155 Human
25	276	70.2	363	9	AY033254	AY033254 Homo sapi
26	275.4	70.1	432	9	H0MIGH3AA	L08082 Human (Clon
27	274.8	69.9	339	9	H0MIGH3L	D83686 Human mRNA
28	274.8	69.9	372	9	HS077372	U77372 Homo sapi
29	274.4	69.8	357	9	U00572	U00572 Human
30	274.2	69.8	357	9	AB063691	AB063691 Homo sapi
31	274	69.7	387	9	HS080144	U80144 Human
32	273.2	69.5	392	9	AF052523	AF052523 Homo sapi
33	273	69.5	488	9	HS1G488	X61014 Human
34	272.2	69.3	339	9	HSWVH007	Z68351 H. sapiens
35	272.2	69.3	519	6	BD013945	BD013945 Humanized
36	272.2	69.3	519	9	H0MIGH321X	M9658 Human
37	272.2	69.3	200000	9	AB019439	AB019439 Homo sapi
38	272.2	69.3	227353	2	AC141259	AC141259 Homo sapi
39	271.8	69.2	375	6	AX061434	AX061434 Sequence
40	271.6	69.1	372	9	HS095238	U95238 Human
41	271.6	69.1	388	9	HS4389186	AJ389186 Homo sapi
42	271.6	69.1	458	9	HS45432	Z14212 H. sapiens
43	271.4	69.1	358	9	HS4556823	AJ556823 Homo sapi
44	271.2	69.0	352	9	HS4556824	AJ556824 Homo sapi
45	271.2	69.0	712	9	HSRIGHVDJ	Z50007 H. sapiens
46	271.2	69.0	819	12	HS4225092	AJ225092 Synthetic
47	271	69.0	321	9	HS4406683	AJ406683 Homo sapi
48	270.8	68.9	378	9	AF004319	AF004319 Homo sapi
49	270.6	68.9	60962	2	AC103742	AC103742 Homo sapi
50	270.4	68.8	357	9	H0MIGHV3C	L19904 Human
51	270.4	68.8	486	9	HS1G486	X61011 Human
52	270.2	68.8	294	9	HS1GDP77	Z14073 H. sapiens
53	270.2	68.8	336	9	HS4406723	AJ406723 Homo sapi
54	270.2	68.8	336	9	HS1HICVD3	X93354 H. sapiens
55	270.2	68.8	346	9	HS4556832	AJ556832 Homo sapi
56	270	68.7	1630	9	BC024289	BC024289 Homo sapi
57	269.6	68.6	378	9	HS1GVC25	Z37313 H. sapiens
58	269.6	68.6	393	9	HSJ001171	AJ001171 Homo sapi
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ALIGNMENTS

Pred. No. is the number of results predicted by chance to have a

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DEFINITION  ARI60968
ACCESSION   ARI60968
VERSION     ARI60968.1
KEYWORDS    GI:16226171
SOURCE      Unknown.
ORGANISM    Unknown.
REFERENCE   1 (bases 1 to 393)
AUTHORS     Siegel,D.L.
TITLE       Rn(D)-binding proteins and magnetically activated cell sorting
METHOD      Patent: US 6235435-A 97 03-JUL-2001;
            Location/Qualifiers
            source          /organism="unknown"
            base_count     88 a 99 c 120 g 86 t
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Best Local Similarity 100.0%; Pred. No. 6,7e-116;
Matches 393; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 GAGGTGACAGCTGCTCGAGTCTGGGGTGGAGTCTGGGGGAGGCTGTCAGGCTGGGGG 60

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QY 241 AACTCAGCTATCTGCAATGAACGCTGAGAGCGGACAGCAGGCTGTGACTACTGT 300
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DB 241 AACTCAGCTATCTGCAATGAACGCTGAGAGCGGACAGCAGGCTGTGACTACTGT 300

QY 301 GCGAGAGATTCTAGATAGCAATATTCCTCCGTTGGCTTGGAGAGCAGGATATGACACTG 360
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DB 301 GCGAGAGATTCTAGATAGCAATATTCCTCCGTTGGCTTGGAGAGCAGGATATGACACTG 360

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DEFINITION  AF044446
ACCESSION   AF044446
VERSION     AF044446.1
KEYWORDS    GI:3046463
SOURCE      synthetic construct
ORGANISM    synthetic construct
REFERENCE   1 (bases 1 to 393)
AUTHORS     Siegel,D.L., Chang,T.Y., Russell,S.L. and Bunya,V.Y.
TITLE       Isolation of cell surface-specific human monoclonal antibodies
            using phage display and magnetically-activated cell sorting:
            applications in immunohematology
JOURNAL     J. Immunol. Methods 206 (1-2), 73-85 (1997)
MEDLINE     97469098
PUBMED      9328570

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REFERENCE 2 (bases 1 to 393)
AUTHORS     Chang,T.Y. and Siegel,D.L.
TITLE       Genetic and immunological properties of phage-displayed human
            anti-Rn(D) antibodies: implications for Rn(D) epitope topology
JOURNAL     Blood 91 (8), 3066-3078 (1998)
MEDLINE     98200617
PUBMED      9531621
REFERENCE   3 (bases 1 to 393)
AUTHORS     Chang,T.Y., Russell,S.L., Bunya,V.Y. and Siegel,D.L.
TITLE       Direct Submission
            Submitted (26-JAN-1998) Path & Lab Med, University of Pennsylvania,
            36th & Hamilton, Philadelphia, PA 19104, USA
JOURNAL
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Best Local Similarity 100.0%; Pred. No. 6,7e-116;
Matches 393; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 TCCCTGAGACTCTCCTGTCGACGCTGCGATTCACCTTCAGTACGATATGATGACACTGG 120
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QY 121 GTCCGCGACAGGTTCACAGGAGGCGGTGAGTGGTCTCATCCATTAGTATAGTATACT 180
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QY 241 AACTCAGCTATCTGCAATGAACGCTGAGAGCGGACAGCAGGCTGTGACTACTGT 300
    |||||||
DB 241 AACTCAGCTATCTGCAATGAACGCTGAGAGCGGACAGCAGGCTGTGACTACTGT 300

QY 301 GCGAGAGATTCTAGATAGCAATATTCCTCCGTTGGCTTGGAGAGCAGGATATGACACTG 360
    |||||||
DB 301 GCGAGAGATTCTAGATAGCAATATTCCTCCGTTGGCTTGGAGAGCAGGATATGACACTG 360

QY 361 TGGGGCCAGGAGGACCGGCTCATCGTCTCTCTCA 393
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DB 361 TGGGGCCAGGAGGACCGGCTCATCGTCTCTCTCA 393

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RESULT 3	381 bp	DNA	linear	PAT 17-OCT-2001
LOCUS	ARI60967			
DEFINITION	Sequence 96 from patent US 6255455.			
ACCESSION	ARI60967			
VERSION	ARI60967.1	GI:16226167		
KEYWORDS				
SOURCE	Unknown.			
ORGANISM	Unknown.			
REFERENCE	Unclassified.			
AUTHORS	1 (bases 1 to 381)			
TITLE	Stiegel,D.L.			
	Rh(D)-binding proteins and magnetically activated cell sorting			
	method for production thereof			
	Patent: US 6255455-A 96 03-JUL-2001;			
JOURNAL	Location/Qualifiers			
FEATURES	1..381			
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ORIGIN	/organism="unknown"			
Query Match	92.5%; Score 363.6; DB 6; Length 381;			
Best Local Similarity	98.9%; Fred. No. 2.2e-106;			
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Db	12 GCTGAGACTCTGGGGAGAGCGCTGTGTCACACCTGTGGGGGTCCTGAGACTCTGTCGACG 71			
QY	84 CTTGAGATTACCTTCACTAGCTATAGCATGCACCTGGTCCGCCAGGAGGAGG 143			
Db	72 CTCGTGATTACCTTCACTAGCTATAGCATGCACCTGGTCCGCCAGGAGGAGG 131			
QY	144 GCTGAGAGGGGTCATCATCTAGTAATAGTAATCACTATATACGAGAGCGCAGT 203			
Db	132 GCTGAGAGGGGTCATCATCTAGTAATAGTAATCACTATATACGAGAGCGCAGT 191			
QY	204 GAAGGGCGGATTACCATCTCCAGAGACACGCCAAGACTCATGTATCTGCAATGAA 263			
Db	192 GAAGGGCGGATTACCATCTCCAGAGACACGCCAAGACTCATGTATCTGCAATGAA 251			
QY	264 CAGCCTGAGAGCCGAGACACAGCGCTGTACTACTGTGCGAGAGATTCTAATATACGTA 323			
Db	252 CAGCCTGAGAGCCGAGACACAGCGCTGTACTACTGTGCGAGAGATTCTAATATACGTA 311			
QY	324 TTTCCTCCGTTGGGTTGCGAGCGAGATGAGAGTCTGGGGCCAAAGGACACAGGTCAT 383			
Db	312 TTTCCTCCGTTGGGTTGCGAGCGAGATGAGAGTCTGGGGCCAAAGGACACAGGTCAT 371			
QY	384 CGTCTCCTCA 393			
Db	372 CGTCTCCTCA 381			
RESULT 4				
LOCUS	AF044445	381 bp	mRNA	linear
DEFINITION	Synthetic construct from Homo sapiens clone E01 anti-Rh(D) antibody			
ACCESSION	AF044445			
VERSION	AF044445			
KEYWORDS	VH segment mRNA, partial cds.			
SOURCE	AF044445.1 GI:3046461			
ORGANISM	Synthetic construct			
REFERENCE	Synthetic construct			
AUTHORS	artificial sequences.			
TITLE	1 (bases 1 to 381)			
	Stiegel,D.L., Chang,T.Y., Russell,S.L. and Bunya,V.Y.			
	Isolation of cell surface-specific human monoclonal antibodies			
	using phage display and magnetically-activated cell sorting;			
	applications in immunohematology			
JOURNAL	J. Immunol. Methods 206 (1-2), 73-85 (1997)			

REFERENCE	TITLE	JOURNAL	PUBMED	REFERENCE	TITLE	JOURNAL	PUBMED
97469098	2 (bases 1 to 381)	Chang, T.Y., and Siegel, D.L.	9328570	97469098	2 (bases 1 to 381)	Chang, T.Y., and Siegel, D.L.	9328570
9328570	Genetic and immunological properties of phage-displayed human anti-Rh(D) antibodies: implications for Rh(D) epitope topology	Blood 91 (8), 3066-3078 (1998)	98200617	9328570	Genetic and immunological properties of phage-displayed human anti-Rh(D) antibodies: implications for Rh(D) epitope topology	Blood 91 (8), 3066-3078 (1998)	98200617
98200617	3 (bases 1 to 381)	Chang, T.Y., Russell, S.L., Bunya, V.Y. and Siegel, D.L.	9516521	98200617	3 (bases 1 to 381)	Chang, T.Y., Russell, S.L., Bunya, V.Y. and Siegel, D.L.	9516521
9516521	Direct Submission	Submitted (26-JUN-1998) Path & Lab Med, University of Pennsylvania 36th & Hamilton, Philadelphia, PA 19104, USA		9516521	Direct Submission	Submitted (26-JUN-1998) Path & Lab Med, University of Pennsylvania 36th & Hamilton, Philadelphia, PA 19104, USA	
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Best Local Similarity	98.9%; Pred. No. 2.2e-106;			Best Local Similarity	98.9%; Pred. No. 2.2e-106;		
Matches 366; Conservative 0; Mismatches 4; Indels 0; Gaps 0				Matches 366; Conservative 0; Mismatches 4; Indels 0; Gaps 0			
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72	CTCTGAGATTCACCTTCAGTACCTATAGCATGACGACCTGGGTCGCCGACAGGCTCCAGGAGG	131		72	CTCTGAGATTCACCTTCAGTACCTATAGCATGACGACCTGGGTCGCCGACAGGCTCCAGGAGG	131	
144	GCTGGAGTGGGCTTCATCATCTTAGTAATAGTAATCTTACATATCTACGACGACGCACT	203		144	GCTGGAGTGGGCTTCATCATCTTAGTAATAGTAATCTTACATATCTACGACGACGCACT	203	
132	GCTGGAGTGGGCTTCATCATCTTAGTAATAGTAATCTTACATATCTACGACGACGCACT	191		132	GCTGGAGTGGGCTTCATCATCTTAGTAATAGTAATCTTACATATCTACGACGACGCACT	191	
204	GAAAGGCCGATTCACATCTCCAGAGACAAAGCCCAAGAACTACATGTAATCTCAATGAA	263		204	GAAAGGCCGATTCACATCTCCAGAGACAAAGCCCAAGAACTACATGTAATCTCAATGAA	263	
192	GAAAGGCCGATTCACATCTCCAGAGACAAAGCCCAAGAACTACATGTAATCTCAATGAA	251		192	GAAAGGCCGATTCACATCTCCAGAGACAAAGCCCAAGAACTACATGTAATCTCAATGAA	251	
264	CAGCCTGAGACCCGAGACACACGCTGTCTACTCTGTCCGAGAGATTCTAGATACAGTAA	323		264	CAGCCTGAGACCCGAGACACACGCTGTCTACTCTGTCCGAGAGATTCTAGATACAGTAA	323	
252	CAGCCTGAGACCCGAGACACACGCTGTCTACTCTGTCCGAGAGATTCTAGATACAGTAA	311		252	CAGCCTGAGACCCGAGACACACGCTGTCTACTCTGTCCGAGAGATTCTAGATACAGTAA	311	
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312	TTTCCCTCCGTTGGGTTGGAGCGACGATGAGCTCTGGGGCCAAAGGACACGCTCAT	371		312	TTTCCCTCCGTTGGGTTGGAGCGACGATGAGCTCTGGGGCCAAAGGACACGCTCAT	371	
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[illegible]

RESULT 7	
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DEFINITION	Homo sapiens IGH mRNA for Immunoglobulin heavy chain VHDJ region, partial cds, clone=aims0006h.
ACCESSION	AB066972
VERSION	AB066972.1 GI:21670000
KEYWORDS	
SOURCE	
ORGANISM	Homo sapiens (human)
REFERENCE	Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS	1 Akahori,Y., Iba,Y., Morino,K., Shinohara,M., Hirono,Y., Kakita,M., Suzuki,K., Torii,H., Ukai,Y., Honda,T., Katsumi,H., Okada,U., Miura,K. and Kurosawa,Y. Construction and characterization of antibody libraries: isolation of therapeutic human antibodies and application to functional genomics
TITLE	Unpublished 2 (bases 1 to 378) Kurosawa,Y.
JOURNAL	Direct Submission Submitted (25-JUL-2001) Yoshikazu Kurosawa, Institute for Comprehensive Medical Science, Fujita Health University, Immunology, Kutsukake-cho, Toyosake, Aichi 470-1192, Japan (E-mail:kurosawafujita-hu.ac.jp, Tel:81-562-93-9387) Please visit our web site URL:http://www.fujita-hu.ac.jp/immunity/ Location/Qualifiers
COMMENT	1. 378
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				Gaps	1
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QY	204	GAAGGGCCGATTACACATCTCCAGAGACAGCCCAAGAACTCAGTATCTGCAATATGA	263		
Db	192	GAAGGGCCGATTACACATCTCCAGAGACAGCCCAAGAACTCAGTATCTGCAATATGA	251		
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Best Local Similarity	89.2%	Pred. No. 1.1e-83		
Matches 330	Conservative 0	Mismatches 34	Indels 6	Gaps 1

[illegible]

RESULT 9	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE
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			AJ389193							
			AJ389193.1	GI:5679517						
		IGHV gene; immunoglobulin heavy chain; variable region.								
		Homo sapiens (human)								
		Homo sapiens								
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.								
		1								
		Capello, D., Fals, F., Vivenza, D., Migliaretti, G., Chiorazzi, N., Gaidano, G., and Ferrarini, M.								
		Identification of three subgroups of B-cell chronic lymphocytic								

JOURNAL	Leukemia bases upon mutations of BCL-6 and IGV genes
REFERENCE	2 (pages 1 to 402)
ATTORNS	Fais F. Submission
JOURNAL	Submitted (20-JUL-1999) Fais F., Clinical Immunology, Istituto Nazionale per la Ricerca sul Cancro, I-90 R. Benzi 1, 16137, ITALY
FEATURES	Location/Qualifiers
source	1. 402

BASE COUNT	89 a	100 c	125 g	88 t
ORIGIN				

Query Match	74.68;	Score 293.2;	DB 9;	Length 402;
Best Local Similarity	-88.38;	Pred. No. 1.5e-83;		
Matches 332;	Conservative 0;	Mismatches 38;	Indels 6;	Gaps 1

QY	2	GGGAGAGTGTGGGGAGGCGCTGTCAACCTCGGGGGCTCTGAGACTTCCTGTGCAC	83
Db	12	GGGAGAGTGTGGGGAGGCGCTGTCAACCTCGGGGGCTCTGAGACTTCCTGTGCAC	71
QY	84	CTGTGATTCACCTTCAGTAGCTATAGCATGCACATCGGTGGTCCGACAGGCTCCAGGAAGG	143
Db	72	CTGTGATTCACCTTCAGTAGCTATAGCATGACGTGGTCCGACAGGCTCCAGGAAGG	131
QY	144	GGGAGAGTGGGCTCATCTCATTAGTAATGTAATGTAATCTAATATATACGACAGCCAGT	203
Db	132	GGGAGAGTGGGCTCATCTCATTAGTAATGTAATGTAATGTAATATATACGACAGCCAGT	191
QY	204	GAAGGGCGATTCACCATCTCCAGAGACAAAGCCAAAGACTCACTGATTCGAAATGAA	263
Db	192	GAAGGGCGATTCACCATCTCCAGAGACAAAGCCAAAGACTCACTGATTCGAAATGAA	251
QY	264	CAGCGTGAAGCGGAGCGACAGGGCTGTACTACTGTGGGAGG-----ATTCTGAAAT	317
Db	252	CAGCGTGAAGCGGAGCGAGGCGTGTATTACTGTGGGAGGCGGCTACTAATGTT	311
QY	318	CAGTAATTTCCCTCGGTGGTTCCGAGCGAGCGATATGGACGTCTGGGGCCAAAGGACAC	377
Db	312	CGGGGGATTATATCTCTACTACTACTACGATGGATGAGACTCTGGGGCCAAAGGACAC	371
QY	378	GGTCATCGTCTCTCA	393
Db	372	GGTCACCGTCTCTCA	387

RESULT 10	
HSAS19292	378 bp mRNA linear PRI 14-JAN-2001
LOCUS	
DEFINITION	Homo sapiens partial mRNA for Igm immunoglobulin heavy chain variable region (IGHV gene), clone ANBEM223.
ACCESSION	HSAS19292.1 GI:27753284
VERSION	AJ519292
KEYWORDS	IGHV gene; immunoglobulin heavy chain; variable region.
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens

REFERENCE
AUTHORS
TITLE

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Euthera; Primates; Catarrhini; Homidae; Homo.
1 (bases 1 to 378)
Lausen,B.F., Hougs,L., Schejbel,L., Hellmann,C. and Barington,T.
Human memory B cells transferred by Allogeneic bone marrow
transplantation contribute significantly to the antibody
repertoire, but fail to re-enter the process of somatic mutation
upon antigenic stimulation
unpublished

JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL

2 (bases 1 to 378)
Lausen,B.F., Hougs,L., Schejbel,L., Hellmann,C. and Barington,T.
Direct Submission
Submitted (22-NOV-2002) Paediatric Clinic II, section 4064, Juliane
Marie Centre, University Hospital Rigshospitalet, Blegdamsvej 9,
Copenhagen DK-2100, Denmark

FEATURES

source

1..378
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/db_xref="taxon:9606"
/clone="ANBPM223"
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/translation="EVLVESGGGLVKGPGSLRLSCAASGFTFSYSNMWVROAPGK
LEWVSISSTIYADSVKGRFTISRDNKNSLYLQMNSLRADDTAVYCAISIGSI
TGDNYYYRMDVWGQGTFTVSS"
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295..304
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305..314
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BASE COUNT
ORIGIN

88 a 94 c 116 g 80 t

Query Match

Best Local Similarity 88.6%; Score 291.6; DB 9; Length 378;
Matches 328; Conservative 0; Mismatches 39; Indels 3; Gaps 1;

24 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 83
|||||
12 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 71
|||||
84 CTCTGATTCACCTTCAGTAGCTATAGCATGCTGGGTCGCCAGGGTCCAGGGAAGG 143
|||||
72 CTCTGATTCACCTTCAGTAGCTATAGCATGCTGGGTCGCCAGGGTCCAGGGAAGG 131
|||||
144 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 203
|||||
132 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 191
|||||
204 GAAGGGCCGATTCACCATCTCCAGAGACAAAGCAAGAACTCAGTATCTCAATGAA 263
|||||
192 GAAGGGCCGATTCACCATCTCCAGAGACAAAGCAAGAACTCAGTATCTCAATGAA 251
|||||
264 CAGCTGAGAGCCGAGCACACGGCTGTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 323
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Db 252 CAGCTGAGAGCCGAGCACACGGCTGTGTATTACTGTGCGACATTGGGGGA--ATAAC 308
OY 324 TTTCCTCCGTTGGTTCGGAGCAGGATATGACGCTGGGGCCAAAGGACACAGGTAT 383
| | | | |
Db 309 TGGGACAACTACTACTACTACTAGGATGAGCGTGGGGCCAAAGGACACAGGTATC 368
OY 384 CGTCTCCCTCA 393
| | | | |
Db 369 CGTCTCCCTCA 378

RESULT 11

HSU77374

LOCUS

DEFINITION

partial cds.

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Euthera; Primates; Catarrhini; Homidae; Homo.

1 (bases 1 to 384)

Aguilera,I., Melero,J., Nunez-Roldan,A. and Sanchez,B.

Molecular structure of eight human autoreactive monoclonal

antibodies

Immunology 102 (3), 273-280 (2001)

21195372

11298825

2 (bases 1 to 384)

Aguilera,I.

Direct Submission

Submitted (05-NOV-1996) Immunology, Hospital U. Virgen Del Rocío,

Manuel Siurot, s/n, Seville, 41013, Spain

Location/Qualifiers

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/organism="Homo sapiens"

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/clone="IRM-3HC"

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/product="Igm heavy chain variable region"

/protein_id="AAB19221.1"

/db_xref="GI:1679768"

/translation="EVLVESGGGLVQPGSLRLSCAASGFTFSYSNMWVROAPGK

LEWVSISSTIYADSVKGRFTISRDNKNSLYLQMNSLRADDTAVYCARDNY

DSSGSLRRYYMDVWGQGTFTVSS"

BASE COUNT

ORIGIN

91 a 90 c 116 g 87 t

Query Match

Best Local Similarity 87.7%; Score 288.2; DB 9; Length 384;
Matches 327; Conservative 0; Mismatches 43; Indels 3; Gaps 1;

24 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 83
|||||
12 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 71
|||||
84 CTCTGATTCACCTTCAGTAGCTATAGCATGCTGGGTCGCCAGGGTCCAGGGAAGG 143
|||||
72 CTCTGATTCACCTTCAGTAGCTATAGCATGCTGGGTCGCCAGGGTCCAGGGAAGG 131
|||||
144 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 203
|||||
132 GGTGAGTCTGGGGAGGCGCTGTCAGGCTGGGGGCTCTGAGACTCTCTGTCAC 191
|||||
204 GAAGGGCCGATTCACCATCTCCAGAGACAAAGCAAGAACTCAGTATCTCAATGAA 263
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192 GAAGGGCCGATTCACCATCTCCAGAGACAAAGCAAGAACTCAGTATCTCAATGAA 251
|||||
264 CAGCTGAGAGCCGAGCACACGGCTGTGTACTACTGTGCGAGAG--ATTCTAGATACAG 320
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Db 252 CAGCCTGAGAGCCGAGGACGCGTGTGATTAATGCTGCGAGACAAATTAATATGATAG 311
|||
Oy 321 TAAATTCCTCCGCTGTTGGAGTGGAGCGATGAGCTGTGGGCGCAAGGAGACGCGT 380
|||
Db 312 TAGTGTTGCCCTGAGGAGATGATCTACTAGGATGAGCTGTGGGCGCAAGGAGACGCGT 371
|||
Oy 381 CATGCTCTCTCA 393
|||
Db 372 CACGCTCTCTCA 384
|||

RESULT 12

HUMVH3 385 bp mRNA linear PRI 27-MAR-2002
LOCUS Human mRNA for immunoglobulin M (IgM), partial cds (VH3-N-D-N-JH6),
DEFINITION clone H2-47E.
D83682.1 GI:1213571
VERSION D83682.1
KEYWORDS IgM; immunoglobulin M.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 Hakoda,M., Kamatani,N., Hayashimoto-Kurumada,S., Silverman,G.J.,
AUTHORS Yamanaka,H., Terai,C. and Kashiwazaki,S.
TITLE Differential binding avidities of human IgM for staphylococcal
JOURNAL protein A derive from specific germ-line VH3 gene usage
MEDLINE J. Immunol. 157 (7), 2976-2981 (1996)
PUBMED 8816323
REFERENCE 2 (bases 1 to 385)
AUTHORS Hakoda,M.
TITLE Direct Submission
JOURNAL Submitted (24-FEB-1996) Masayuki Hakoda, Tokyo Women's Medical
College, Institute of Rheumatology; 10-22 Kawada-cho, Shinjuku-ku,
Tokyo 162, Japan (Tel:3-5269-1725; Fax:3-5269-1726)
FEATURES
source Location/Qualifiers

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/tissue_type="Blood"
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/codon_start=1
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/protein_id="AA12049.1"
/db_xref="GI:1871483"
/translation="EVOLVESGGLVDPGSLRSCAAGFTSSSYMNIRAPGCG
LEWYSYSSSSSTIYADSVAGRTISRDNAKNSLYLQNMSLRAEDTAVYCARALTY
YDSSGTYGYMDVWGQGTIVTSS"
1..294
/note="VH3 gene"
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/note="N-D-N region"
J_segment 330..385
/note="JH6 gene"
BASE COUNT 89 a 92 c 115 g 89 t
ORIGIN

BASE COUNT

Query Match 72.9%; Score 286.6; DB 9; Length 385;
Best Local Similarity 87.4%; Pred. No. 2e-81;
Matches 326; Conservative 0; Mismatches 44; Indels 3; Gaps 1;

Oy 24 GGTGAGCTGGGGGAGGCGTGCACAGCGTGGGGGCTCCCTGAGACTCTCTGTCGAGC 83
|||||
Db 12 GGTGAGCTGGGGGAGGCGTGTGTACACCGCTGGGGGGTCTCTGAGACTCTCTGTGACG 71
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Oy 84 CTGTGATTCACCTTACGTAGTACCTATAGCATGCACTGGGTCCGCGAGGATCCAGGAGG 143
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Db 72 CTGTGATTCACCTTACGTAGTACCTATAGCATGCACTGGGTCCGCGAGGATCCAGGAGG 131
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Oy 144 GCTGAGTGGGTTCATCCATCCATTAATAGTAATAGTACATTAATAGTACAGACGAGT 203
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Db 132 GCTGAGTGGGTTCATCCATCCATTAATAGTACATTAATAGTACAGACGAGT 191
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Oy 204 GAAGGCGGATTCACATCCATCCATTAATAGTACATTAATAGTACAGACGAGT 263
|||||
Db 192 GAAGGCGGATTCACATCCATCCATTAATAGTACATTAATAGTACAGACGAGT 251
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Oy 264 CAGCCTGAGAGCCGAGGACGCGTGTGATTAATAGTACATTAATAGTACAGACGAGT 320
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Db 252 CAGCCTGAGAGCCGAGGACGCGTGTGATTAATAGTACATTAATAGTACAGACGAGT 311
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Oy 321 TAAATTCCTCCGCTGTTGGAGTGGAGCGAGCTGTGGGCGCAAGGAGACGCGT 380
|||||
Db 312 TGATAGTAGTGTGATGCTACTAGTACGATGAGCTGTGGGCGCAAGGAGACGCGT 371
|||||
Oy 381 CATGCTCTCTCA 393
|||||
Db 372 CACGCTCTCTCA 384
|||||

RESULT 13

AF032350 438 bp mRNA linear PRI 12-DEC-2001
LOCUS Homo sapiens variable immunoglobulin anti-HLA heavy chain (IGH)
DEFINITION mRNA, partial cds.
AF032350
AF032350.1 GI:2654033
VERSION AF032350
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 Hakoda,M., Kamatani,N., Hayashimoto-Kurumada,S., Silverman,G.J.,
AUTHORS Yamanaka,H., Terai,C. and Kashiwazaki,S.
TITLE Differential binding avidities of human IgM for staphylococcal
JOURNAL protein A derive from specific germ-line VH3 gene usage
MEDLINE J. Immunol. 157 (7), 2976-2981 (1996)
PUBMED 8816323
REFERENCE 2 (bases 1 to 438)
AUTHORS Hakoda,M., Woelfel,P., and Goldmann,S.F.
TITLE Direct Submission
JOURNAL Submitted (03-NOV-1997) Department of Transplantation Immunology,
Red Cross Blood Bank Uim, Helmholtzstr. 10, Uim 89081, Germany
FEATURES
source Location/Qualifiers

1..438
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/mol_type="mRNA"
/db_xref="taxon:9606"
/chromosome="14"
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heteromyeloma"
/gene="IGH"
CDS
1..438
/gene="IGH"
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/product="variable immunoglobulin anti-HLA heavy chain"
/protein_id="AA87970.1"
/db_xref="GI:2654033"
/translation="CGGILRPGGSLRSCAAGFTSSSYMNIRAPGKLEWYSI
SSSTIYANSYKGRFTISRDNAKNSLYLQNMSLRAEDTAVYCARDPGGYCSGSVS

BASE COUNT 93 a 127 c 128 g 90 t
 ORIGIN CYYTGMDVWGCGTTTIVSSASTKGPVFPPLAPSSKSTSGTAA"

Query Match 72.5%; Score 284.8; DB 9; Length 438;
 Best Local Similarity 88.3%; Pred. No. 7.7e-81;
 Matches 323; Conservative 0; Mismatches 37; Indels 6; Gaps 1;

34 GGGGAGGCGCTGGTAAAGCTGGGGGTCCTCCAGACACTCTCTGACAGCCCTGGATTTC 93
 1 GGGGAGGCGCTGGTAAAGCTGGGGGTCCTCCAGACACTCTCTGACAGCCCTGGATTTC 60

94 ACCTTCAGTACGATATAGCATGATGATGATGATGATGATGATGATGATGATGATGATG 153
 61 ACCTTCAGGAGCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 120

154 GTCCTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 213
 121 GTCCTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 180

214 TTCACCATCTCCAGAGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 273
 181 TTCACCATCTCCAGAGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 240

274 GCCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 327
 241 GCCGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 300

328 CTCCTGTTGGGTTGGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 387
 301 GTTACTTTGTTACTTACTTACTTACTTACTTACTTACTTACTTACTTACTTACTTACT 360

388 TCCCTCA 393
 361 TCCCTCA 366

RESULT 14
 AF170095 372 bp DNA linear PRI 02-MAY-2001
 LOCUS AF170095
 DEFINITION Homo sapiens isolate MCL-BV/128 immunoglobulin heavy chain VDJ region (IGH) gene, IGH-F allele, partial cds.
 ACCESSION AF170095.1 GI:5917697
 VERSION AF170095.1
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 1 (bases 1 to 372)
 Laszlo, T., Nagy, M., Kelenyi, G. and Matolcsy, A.
 Immunoglobulin V(H) gene mutational analysis suggests that blastoid variant of mantle cell lymphoma derives from different stages of B-cell maturation
 Leuk. Res. 24 (1), 27-31 (2000)
 JOURNAL MEDLINE
 PUBMED 20098130
 REFERENCE 10634642
 2 (bases 1 to 372)
 Matolcsy, A.
 Direct Submission
 Submitted (21-JUL-1999) Department of Pathology, University Medical School of Pecs, Szigeti ut 12, Pecs, Baranya 7624, Hungary
 FEATURES
 location/Qualifiers
 1..372
 /organism="Homo sapiens"
 /mol_type="genomic DNA"
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 /db_xref="taxon:9606"
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 /map="14q32"
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BASE COUNT 89 a 93 c 111 g 79 t
 ORIGIN

Query Match 72.3%; Score 284; DB 9; Length 372;
 Best Local Similarity 87.6%; Pred. No. 1.4e-80;
 Matches 324; Conservative 0; Mismatches 40; Indels 6; Gaps 1;

24 GGTGAGTGTGGGGAGGCGCTGTCAGGCTGGGGGTCCTGAGACTCTCTGTCACG 83
 9 GGTGAGTGTGGGGAGGCGCTGTCAGGCTGGGGGTCCTGAGACTCTCTGTCACG 68

84 CTCCTGATTCACCTTCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 143
 69 CTCCTGATTCACCTTCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 128

144 GCTGAGTGGGTCTCATCATTAGTATGATGATGATGATGATGATGATGATGATGATGAT 203
 129 GCTGAGTGGGTCTCATCATTAGTATGATGATGATGATGATGATGATGATGATGATGAT 188

204 GAAGGCGCATTCACCATCTCCAGAGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 263
 189 GAAGGCGCATTCACCATCTCCAGAGACAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 248

264 CAGCCTGAGAGCGGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 323
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324 TTTCCTCCGTTGGTGGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 383
 306 ---CAGCTGGAGCGCTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 362

384 CGTCTCCTCA 393
 363 CGTCTCCTCA 372

RESULT 15
 HSA555251 387 bp mRNA linear PRI 15-APR-2003
 LOCUS HSA555251
 DEFINITION Homo sapiens partial mRNA for immunoglobulin heavy chain variable region (IGHV gene), isolate B-CLL G002.
 ACCESSION AJ555251.1 GI:29892968
 VERSION AJ555251.1
 KEYWORDS IGHV gene; immunoglobulin heavy chain; variable region.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 1
 Fais, F., Morabito, F., Stelitano, C., Callea, V., Zanardi, S., Scudiletta, M., Varese, P., Ciccone, E. and Grossi, C.
 Cld on B-chronic lymphocytic leukemia cells mediates a-galactosylceramide presentation to natural killer T lymphocytes
 Unpublished
 2 (bases 1 to 387)
 JOURNAL MEDLINE
 PUBMED 20098130
 REFERENCE 10634642
 2 (bases 1 to 387)
 Fais, F.
 Direct Submission

JOURNAL Submitted (03-APR-2003) Fais F., Department of Experimental medicine, Human Anatomy Section, Via De Toni 14, 16132, Genova, ITALY

FEATURES

Location/Qualifiers

1. .387

/organism="Homo sapiens"

/mol_type="mRNA"

/isolate="B-CLL G002"

/db_xref="taxon:9606"

/cell_type="chronic lymphocyte leukemia B-cell"

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BASE COUNT 87 a 98 c 116 g 86 t

ORIGIN

Query Match 72.0% Score 283; DB 9; Length 387;

Best Local Similarity 88.5% Pred. No. 2.9e-80;

Matches 330; Conservative 0; Mismatches 40; Indels 3; Gaps 2;

24 GGTGAGTCTGGGGGAGGCGCTGTCAGCGCTGGGGGCTCCAGACCTCCTGTGCAC 83

12 GGTGAGTCTGGGGGAGGCGCTGTCAGCGCTGGGGGCTCCAGACCTCCTGTGCAC 71

84 CTCGTGATTCACCTTCAGTAGCTATAGATGATGATGATGATGATGATGATGATGAT 143

72 CTCGTGATTCACCTTCAGTAGCTATAGATGATGATGATGATGATGATGATGATGAT 131

144 GCTGAGTGGGTCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCAT 203

132 GCTGAGTGGGTCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCAT 191

204 GAAGGCCGATTCACCATCTCCAGAGACACGCCAAGACATCTCATCTCATCTCATCTCA 263

192 GAAGGCCGATTCACCATCTCCAGAGACACGCCAAGACATCTCATCTCATCTCATCTCA 251

264 CAGCCTGAGAGCCGAGACACGAGCTGTACTGCTGTACTGCTGTACTGCTGTACTGCT 321

252 CAGCCTGAGAGCCGAGAGACACGAGCTGTACTGCTGTACTGCTGTACTGCTGTACTGCT 311

322 AATTTCCTCGTTGGGTGGG--AGCGAGCTATGAGCGTCTGGGGCCAGAGGACGAGCT 380

312 AGTACAGCTGCTATCTAGCGCTGGGACACTTCTGACTCTGGGGCCAGAGGACGCTGCT 371

381 CATCGTCCTCA 393

372 CACGCTCTCTCA 384

RESULT 16

LOCUS AF174081 375 bp mRNA linear PRI 08-MAY-2001

DEFINITION Homo sapiens clone sc48u-100 Immunoglobulin heavy chain variable region (IGH) mRNA, partial cds.

ACCESSION AF174081

VERSION AF174081.1 GI:5834121

KEYWORDS Homo sapiens (human)

SOURCE Homo sapiens

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 375)

AUTHORS Wang, X. and Stollari, B.D.

TITLE Immunoglobulin VH gene expression in human aging

JOURNAL Clin. Immunol. 93 (2), 132-142 (1999)

MEDLINE 99459182

PUBMED 10527689

REFERENCE 2 (bases 1 to 375)

AUTHORS Wang, X. and Stollari, B.D.

TITLE Direct Submission

JOURNAL Submitted (02-AUG-1999) Biochemistry Department, Tufts University School of Medicine, 136 Harrison Ave., Boston, MA 02111, USA

FEATURES

Location/Qualifiers

1. .375

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/mol_type="mRNA"

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/clone="sc48u-100"

/cell_type="peripheral blood B lymphocyte"

/note="Single cell RT-PCR from elderly repertoire 48u"

<1. .>375

/gene="IGH"

<1. .>375

/gene="IGH"

/codon_start=1

/product="immunoglobulin heavy chain variable region"

/protein_id="AAB53827.1"

/db_xref="GI:5834122"

/translation="EVOLVESGGGLVPGGSLRLCSAAGFTFSSYSMNVVQAPGKGLWVSISSSSSYIYADSVKGRFTISRDNAKNSLYLQNSLRRAEDTAVYVCARDWSS SQYVYVMDVWGQTLIVSSG"

BASE COUNT 85 a 90 c 117 g 83 t

ORIGIN

Query Match 71.1% Score 279.6; DB 9; Length 375;

Best Local Similarity 87.0% Pred. No. 3.7e-79;

Matches 322; Conservative 0; Mismatches 39; Indels 9; Gaps 1;

24 GGTGAGTCTGGGGGAGGCGCTGTCAGCGCTGGGGGCTCCAGACCTCCTGTGCAC 83

12 GGTGAGTCTGGGGGAGGCGCTGTCAGCGCTGGGGGCTCCAGACCTCCTGTGCAC 71

84 CTCGTGATTCACCTTCAGTAGCTATAGATGATGATGATGATGATGATGATGATGAT 143

72 CTCGTGATTCACCTTCAGTAGCTATAGATGATGATGATGATGATGATGATGATGAT 131

144 GCTGAGTGGGTCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCAT 203

132 GCTGAGTGGGTCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCATCTCAT 191

204 GAAGGCCGATTCACCATCTCCAGAGACACGCCAAGACATCTCATCTCATCTCATCTCA 263

192 GAAGGCCGATTCACCATCTCCAGAGACACGCCAAGACATCTCATCTCATCTCATCTCA 251

264 CAGCCTGAGAGCCGAGACACGAGCTGTACTGCTGTACTGCTGTACTGCTGTACTGCT 323

252 CAGCCTGAGAGCCGAGAGACACGAGCTGTACTGCTGTACTGCTGTACTGCTGTACTGCT 311

324 TTTCCTCGTTGGGTGGGCGAGCGGTATGAGCTGTGGGGCCAGAGGACGAGCTCAT 383

312 GTACTACTACT-----ACTAGGTATGAGCTGTGGGGCCAGAGGACGAGCTCAT 362

384 GGTCTCTCA 393

363 CGTGTCTCA 372

RESULT 17

LOCUS HSY12442 389 bp DNA linear PRI 15-JAN-1998

DEFINITION H.sapiens Igh gene, partial, isolate lymphoma 222.

ACCESSION Y12442

VERSION Y12442.1 GI:20734323

KEYWORDS CDR3 region; constant region; heavy chain; immunoglobulin.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.

REFERENCE 1
AUTHORS van Belzen, N., Hupkes, P.E., Doekharan, D., Hoogeveen-Westerveld, M.,
Dossers, L.C. and van 't Veer, M.B.
TITLE Detection of minimal disease using rearranged immunoglobulin heavy
chain genes from intermediate- and high-grade malignant B cell
non-Hodgkins lymphoma
JOURNAL Leukemia 11 (10), 1742-1752 (1997)
MEDLINE 97464475
PUBMED 9324296
REFERENCE 2 (bases 1 to 389)
AUTHORS Van Belzen, N.
TITLE Direct Submission
JOURNAL Submitted (05-APR-1997) N. Van Belzen, Erasmus University
Rotterdam, Department of Hematology, PO Box 1738, 3000 DR
Rotterdam, NETHERLANDS

FEATURES
source location/Qualifiers
1..389
/organism="Homo sapiens"
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/note="CDR3 domain"

C_region
BASE COUNT 94 a 93 c 116 g 86 t
ORIGIN

Query Match 70.9%; Score 278.8; DB 9; Length 389;
Best Local Similarity 85.9%; Pred. No. 6.7e-79;
Matches 323; Conservative 0; Mismatches 47; Indels 6; Gaps 1;

QY 24 GGTGAGTCTGGGGAGGCGCTGTGCAAGCCTGGGGGTCCTCGAAGCTCTCTGTGCAGC 83
DB 11 GGTGAGTCTGGGGAGGCGCTGTGCAAGCCTGGGGGTCCTCGAAGCTCTCTGTGCAGC 70
QY 84 CTCTGATTCACCTTCAGTATAGCATGATGCACTGGGCGCCAGGGTCAGGGAAGG 143
DB 71 CTCTGATTCACCTTCAGTATAGCATGATGCACTGGGCGCCAGGGTCAGGGAAGG 130
QY 144 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATACATATACATACAGCAGCAGT 203
DB 131 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATACATATACATACAGCAGCAGT 190
QY 204 GAAGGCGCGATTACCATCTCCAGAGACAGCCCAAGAACTCAGTATCTGCAATGAA 263
DB 191 GAAGGCGCGATTACCATCTCCAGAGACAGCCCAAGAACTCAGTATCTGCAATGAA 250
QY 264 CAGCTGAGAGCCGAGACAGCGGTGTACTAGTGTGAGAGATTTAGATA----- 317
DB 251 CAGCTGAGAGCCGAGACAGCGGTGTACTAGTGTGAGAGATTTAGATA----- 310
QY 318 CAGTAATTTCTCCGTTGGGTTCCGAGCGAGCGTATGAGACGTCTGGGGCCAGAGCAGC 377
DB 311 TACATTTTGAAGAACATCAATCGGGGATGCTTTGATATCTGGGCGCAAGGACAAT 370
QY 378 GGTGATGCTGTCCTCA 393
DB 371 GGTGATGCTGTCCTCA 386

RESULT 18
AF466106 384 bp DNA linear PRI 18-SEP-2002
LOCUS AF466106
DEFINITION Homo sapiens immunoglobulin heavy chain variable region gene,
partial cds.
ACCESSION AF466106
VERSION AF466106.1 GI:18496730
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
REFERENCE 1 (bases 1 to 384)
AUTHORS Zhu, D., Orchard, J., Oscier, D.G., Wright, D.H. and Stevenson, F.K.
TITLE V(H) gene analysis of splenic marginal zone lymphomas reveals
diversity in mutational status and initiation of somatic mutation
in vivo
JOURNAL Blood 100 (7), 2659-2661 (2002)
MEDLINE 22224400
PUBMED 12239182
REFERENCE 2 (bases 1 to 384)
AUTHORS Zhu, D., Orchard, J., Oscier, D.G., Wright, D.H. and Stevenson, F.K.
TITLE Direct Submission
JOURNAL Submitted (08-JAN-2002) Molecular Immunology Group, Tenovus
Laboratory, Cancer Sciences Division, University of Southampton,
Tremora Road, Southampton SO16 6YD, UK
Ig VH sequence from SMZL; case ME.

COMMENT
FEATURES
source location/Qualifiers
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CDS
BASE COUNT 85 a 96 c 115 g 88 t
ORIGIN

Query Match 70.9%; Score 278.6; DB 9; Length 384;
Best Local Similarity 86.1%; Pred. No. 7.7e-79;
Matches 321; Conservative 0; Mismatches 49; Indels 3; Gaps 1;

QY 24 GGTGAGTCTGGGGAGGCGCTGTGCAAGCCTGGGGGTCCTCGAAGCTCTCTGTGCAGC 83
DB 12 GGTGAGTCTGGGGAGGCGCTGTGCAAGCCTGGGGGTCCTCGAAGCTCTCTGTGCAGC 71
QY 84 CTCTGATTCACCTTCAGTATAGCATGATGCACTGGGCGCCAGGGTCAGGGAAGG 143
DB 72 CTCTGATTCACCTTCAGTATAGCATGATGCACTGGGCGCCAGGGTCAGGGAAGG 131
QY 144 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATACATATACATACAGCAGCAGT 203
DB 132 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATACATATACATACAGCAGCAGT 191
QY 204 GAAGGCGCGATTACCATCTCCAGAGACAGCCCAAGAACTCAGTATCTGCAATGAA 263
DB 192 GAAGGCGCGATTACCATCTCCAGAGACAGCCCAAGAACTCAGTATCTGCAATGAA 251
QY 264 CAGCTGAGAGCCGAGACAGCGGTGTACTAGTGTGAGAGATTTAGATA----- 323
DB 252 CAGCTGAGAGCCGAGACAGCGGTGTACTAGTGTGAGAGATTTAGATA----- 311
QY 324 TTTCCTCCGTTGGGTTCCGAGCG--ACGTAATGAGCTCTGGGGCCAGAGCAGCAGT 380

Db	312	ACGTTTGGGGAGATTATGCGTGGCTACTACTTTGACTTGGGCGCAGGGAACCTGGT	37
QY	381	CATGCTCTCTCA 393	
Db	372	CACGCTCTCTCA 384	
RESULT 19			
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LOCUS			linear
DEFINITION			PRI 18-SEP-2002
ACCESSION			
VERSION			
KEYWORDS			
SOURCE			
ORGANISM			
		Homo sapiens (human)	
		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	
		Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.	
REFERENCE			
AUTHORS		1 (bases 1 to 384)	
TITLE		Zhu,D., Orchard,J., Oscier,D.G., Wright,D.H. and Stevenson,F.K.	
		VH) gene analysis of splenic marginal zone lymphomas reveals	
		diversity in mutational status and initiation of somatic mutation	
		in vivo	
JOURNAL		Blood 100 (7), 2659-2661 (2002)	
MEDLINE		22224400	
PUBMED		12239182	
REFERENCES		2 (bases 1 to 384)	
AUTHORS		Zhu,D., Orchard,J., Oscier,D.G., Wright,D.H. and Stevenson,F.K.	
TITLE		Direct Submission	
JOURNAL		Submitted (08-JAN-2002) Molecular Immunology Group, Tenovus	
		Laboratory, Cancer Sciences Division, University of Southampton,	
		Tremona Road, Southampton SO16 6XD, UK	
COMMENT		IG VH sequence from SMZ; case ME.	
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BASE COUNT		85 a 96 c 115 g 88 t	
ORIGIN			
		70.9%: Score 278.6; DB.9; Length 384;	
		Query Match	
		Best Local Similarity 86.1%; Pred. No. 7,7e-79;	
		Matches 321; Conservative 0; Mismatches 49; Indels 3; Gaps 1;	
QY	24	GGTGGAGTCTGGGGAGAGCCGTCGTCACAGCCGCGGGGGTCCCTGAGACTCTCTGTGCAGC	83
Db	12	GGTGGAGTCTGGGGAGAGCCCTGTCACAGCCCTGGGGGGTCCCTGAGACTCTCTGTGCAGC	71
QY	84	CTCTGGATTACACCTTCACAGTACTTATAGCATGCACTGGTCCGCCAGGGTCCAGGAAAGG	143
Db	72	CTCTGGATTACACCTTCAGTACTTATAGCATGCACTGGTCCGCCAGGGTCCAGGAAAGG	131
QY	144	GCTGGAGTGGTCTCATCATTCATTACTTAATAGTAACTTACTTAACTACTGACGACGACAGT	203
Db	132	GCTGGAGTGGTCTCATCATTCATTACTTACTGAGTAGTAGTACTTATACGACGACGACGAGT	191
QY	204	GAAAGGCCGATTCCACATCTCCAGACGACCAACGCCAAGAACTGATGTATCTGCAAAATGAA	263
Db	192	GAAAGGCCGATTCCACATCTCCAGACGACCAACGCCAAGAACTGATGTATCTGCAAAATGAA	251

QY	264	GAGCTGTAGAGCCGAGACACAGCGCTGTGTACTACTGTGCGAGAGATTCTTGATACAGTAA	322
Db	252	CCGCTGTAGAGCCGAGAGACACAGCGCTGTGTATTACTGTGCGAGAGATTCTTAAGGCCACAT	311
QY	324	TTTCTCGTGGTGGTGTGGAGCG---ACGGTATGGACGTGGGGGCCAAGGACACAGGT	380
Db	312	ACGTTTGGGGGAGATTATGCGTCCGTACTACTTTCATCTAGCTAGCTAGCGGCCAACCCCTGT	371
QY	381	CATGCTCTCTCTCA	393
Db	372	CACGCTCTCTCTCA	384
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LOCUS	HSR0U221	441 bp	linear
DEFINITION	H.sapiens rearranged VDJ region (R0U221).		
ACCESSION	X81751		
VERSION	X81751.1	GI:1209423	
KEYWORDS	diversity region; immunoglobulin heavy chain; joining region; variable region; VH-3 family.		
SOURCE	Homo sapiens (human)		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.		
AUTHORS	1		
TITLE	Milli,M., Schiff,C., Fougereau,M. and Tonnelle,C. The VDJ repertoire expressed in human preB cells reflects the selection of bone fide heavy chains		
JOURNAL	Eur. J. Immunol. 26.(1), 63-69 (1996)		
MEDLINE	96152725		
PUBMED	8566085		
REFERENCE	2 (bases 1 to 441)		
AUTHORS	Tonnelle,C.		
TITLE	Direct Submission		
JOURNAL	Submitted (15-SEP-1994) C. Tonnelle, Centre d'Immunologie		
COMMENT	Marseille-Luminy, Case 906, 13288 Marseille, Cedex 9, FRANCE		
FEATURES	Related sequences: X65741, X65883 to X65920.		
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	58..353		
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	98 a	134 g	115 t
BASE COUNT	98 a	134 g	115 t
ORIGIN			
Query Match	70.94;	Score 278.6;	DB 9;
Best Local Similarity	86.14;	Pred. No. 7.9e-79;	Length 441;
Matches	321;	Conservative 0;	Mismatches 49;
		Indels	3;
		Gaps	14;
QY	24	GGTGAGCTGTGGGAGGCGCTGTGACACCTGGGGGCGCTGAGACATCTGTGACG	83
Db	69	GGTGAAGCTGTGGGAGGCGCTGTGACACCTGGGAGGCTCCCTGAGACTCTCTGTGCAGC	128
QY	84	CTCTGATTACCTTCACTAGCTATAGCACTGAGCTGGTCCGCCAGGATCCAGGAGGG	143
Db	129	CTCTGATTACCTTCACTAGCTATAGCACTGAGCTGGTCCGCCAGGATCCAGGAGGG	188
QY	144	GCTGAGTGGGTCTCATCTCATCTTAAGTAATAGTAATCTTACTATATACGACAGCAGT	203

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 22:34:02 ; Search time 269 Seconds
(without alignments)
3943.789 Million cell updates/sec

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Perfect score: 393
Sequence: 1 gaggtgcagctgcctgcagtc.....ccacgycatcgcctcctca 393

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2552756 segs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 60 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	393	100.0	393	22	AAH68642	Human anti-Rh(D) c
2	363.6	92.5	381	22	AAH68641	Human anti-Rh(D) c
3	272.2	69.3	311	23	ABS46318	Human liver single
4	272.2	69.3	311	24	ABS20923	Human genome-deriv
5	272.2	69.3	519	16	AAO78959	Human immunoglobul
6	271.8	69.2	375	22	AAF29047	Human HIV-1 monocl
7	269.6	68.6	348	24	AAD46290	Human KDR (VEGFR-2
8	269.6	68.6	348	24	AAD46292	Human KDR (VEGFR-2

9	269.6	68.6	348	25	ABT23325	VEGF binding relat
10	269.6	68.6	348	25	ABT23327	VEGF binding relat
11	268.8	68.4	376	24	ABS62722	Anti-IGF-IR antibo
12	268	68.2	348	24	AAD46294	Human KDR (VEGFR-2
13	268	68.2	348	25	ABT23329	VEGF binding relat
14	268	68.2	458	22	AAH41153	Human coding sequ
15	261.6	66.6	376	24	ABS62704	Anti-IGF-IR antibo
16	261.2	66.5	381	20	AAH77236	Human DA.5 heavy c
17	261.2	66.5	414	19	NAIV68537	Nucleotide sequenc
18	260.6	66.3	519	20	AAZ20407	IGG antibody 2.1.1
19	260.2	66.2	1630	21	AAZ50587	HD706CFV-CH1-GM-CS
20	260.2	66.2	1630	21	AAZ50588	HD706CFV-CK-Interl
21	260	66.2	816	24	ABK43226	DNA encoding anti
22	259.2	66.0	1413	21	AAH46898	DNA encoding the h
23	258.8	65.9	381	22	AAO35516	DNA encoding anti-
24	257.8	65.6	743	16	AAO78986	Human immunoglobul
25	255	64.9	402	18	AAIT3529	DNA encoding anti-
26	253.6	64.5	376	15	AAO65539	Variable heavy cha
27	253.2	64.4	429	21	AAH13935	Human PTHrP monocl
28	252.8	64.3	437	24	ABL33509	Human recombinant
29	252	64.1	375	24	ABS62700	Anti-IGF-IR antibo
30	252	64.1	562	21	AAH46886	DNA encoding the h
31	251.6	64.0	429	21	AAH13939	Human PTHrP monocl
32	251	63.9	762	19	AAV49460	cDNA encoding huma
33	250.6	63.8	357	22	AAH47732	Nucleotide sequenc
34	250.4	63.7	474	25	ABZ22308	S. pneumoniae pps-
35	250.4	63.7	520	25	ABT1879	Anti-CD40 monoclon
36	250	63.6	429	21	AAH13936	Human PTHrP monocl
37	249	63.4	354	22	AAO30470	DNA encoding anti-
38	248.8	63.3	375	25	ABZ24184	Anti-EgFR antibody
39	248.8	63.3	456	11	AAO30610	Sequence encoding
40	248.4	63.2	429	21	AAH13930	Human PTHrP monocl
41	248.4	63.2	429	21	AAH13931	Human PTHrP monocl
42	248.4	63.2	429	21	AAH13932	Human PTHrP monocl
43	248.4	63.2	429	21	AAH13933	Human PTHrP monocl
44	248.4	63.2	429	21	AAH13937	Human PTHrP monocl
45	248.4	63.2	1458	22	AAZ52625	Human cDNA encodin
46	247.6	63.0	527	24	ABL65878	Lung cancer relate
47	247.6	63.0	527	24	ABL65879	Thyroid cancer rel
48	247.2	62.9	375	11	AAO30608	Sequence encoding
49	246.8	62.8	354	21	AAH36948	Human anti-HBS ant
50	246.8	62.8	393	22	AAH47730	Nucleotide sequenc
51	246.8	62.8	718	24	ABS62724	Anti-IGF-IR antibo
52	245.8	62.5	415	16	AAO78949	Human immunoglobul
53	245.6	62.5	437	24	ABL53510	Human recombinant
54	245.6	62.5	437	24	ABL53511	Human recombinant
55	245.6	62.5	4026	24	ABK81191	DNA encoding immun
56	245.4	62.4	1605	22	AAH18432	Human cDNA sequenc
57	245	62.3	296	24	ABS62711	Germline anti-IGF-
58	245	62.3	349	22	AAO3504	DNA encoding anti-
59	244.8	62.3	437	24	ABL53508	Human recombinant
60	244.4	62.2	372	20	AAV72230	Human anti-GP11b/I

ALIGNMENTS

RESULT 1	
AAH68642	
ID	AAH68642 standard; DNA: 393 BP.
AC	AAH68642;
XX	
XX	
DT	14-SEP-2001 (first entry)
XX	
DE	Human anti-Rh(D) chain E03 nucleotide sequence.
XX	
KW	Human; anti-Rh(D) antibody; Rh(D) binding protein; immunostimulant;
KW	red blood cell; Rh phenotype; diagnosis; therapeutic; ds.
OS	Homo sapiens.
XX	
PN	US6255455-B1.

PD	03-JUL-2001.
XX	
XX	
XX	29-JAN-1999; 9905-0240274.
XX	
PR	11-OCT-1996; 9605-0028550.
PR	10-APR-1998; 9805-0081380.
PR	27-JUN-1997; 9705-0884045.
XX	
PA	(DYPE-) UNIV PENNSYLVANIA.
XX	
PI	Stiegel DL;
DR	WPI: 2001-388931/41.
DR	P-PSDB; AAG93585.
XX	
PT	New isolated protein, preferably a human anti-Rh(D) antibody for use in
PT	diagnostics requiring a human instead of an animal antibody and in
PT	therapeutic medicine -
XX	
PS	Example 2; Column 53; 162pp; English.
XX	
CC	The present invention describes an isolated Rh(D) binding protein,
CC	preferably a human antibody, (1) having an amino acid sequence comprising
CC	one of the sequences (S) given in AAG93558 to AAG93669. (I) has
CC	immunostimulant activity, and can be used as an immune system stimulant.
CC	(1) can be used in diagnostic and therapeutic medicine. The antibodies
CC	are used in diagnostics that require human antibodies instead of animal
CC	antibodies, such as determine the Rh phenotype of human red blood cells.
CC	AAH68615 to AAH68726 represent the nucleotide sequence which encode
CC	AAG93558 to AAG93669. AAG93670 to AAG93697 represent anti-Rh(D) heavy
CC	chain CDS3 amino acid sequences which are given in the exemplification
CC	of the present invention.
XX	
Sequence	393 BP; 88 A; 99 C; 120 G; 86 T; 0 other;

Query Match	100.0%;	Score 393;	DB 22;	Length 393;
Best Local Similarity	100.0%;	Pred. No. 4,4e-107;		
Matches 393;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	GAGGTGCAGCTGCTGCGATCTGGGGTGGAGTCTGGGGGAGCGCTGCTAAAGCTTGGGGG	60	
Db	1	GAGGTGCAGCTGCTGCGATCTGGGGTGGAGTCTGGGGGAGCGCTGCTAAAGCTTGGGGG	60	
QY	61	TCCCTGCAGCTCTCTGTGCAAGCCCTGCGATTACCTTCATAGTATAGCATGCTGACATGG	120	
Db	61	TCCCTGCAGCTCTCTGTGCAAGCCCTGCGATTACCTTCATAGTATAGCATGCTGACATGG	120	
QY	121	GTCCGCGAGGGTCCAGGGAAAGGGCTGGAGTGGGGTCTGATCGATTATGTAATAGTAAATCT	180	
Db	121	GTCCGCGAGGGTCCAGGGAAAGGGCTGGAGTGGGGTCTGATCGATTATGTAATAGTAAATCT	180	
QY	181	TACATATATCTACGCAGACAGCATGTAAAGGGCCGATTACCATCTCCAGAGACAGACGCCAAG	240	
Db	181	TACATATATCTACGCAGACAGCATGTAAAGGGCCGATTACCATCTCCAGAGACAGACGCCAAG	240	
QY	241	AACCTACTGTAATCTGCAATATGACAACGCTTGAGAGCCGAGCAACAGCGCTGTGTACTACTGT	300	
Db	241	AACCTACTGTAATCTGCAATATGACAACGCTTGAGAGCCGAGCAACAGCGCTGTGTACTACTGT	300	
QY	301	GCGAGAGATTTAGATATACAGTAATTTCTCTCCGTGGGTTGGAGCGAGCGTATGGAGCTC	360	
Db	301	GCGAGAGATTTAGATATACAGTAATTTCTCTCCGTGGGTTGGAGCGAGCGTATGGAGCTC	360	
QY	361	TGGGGCCAGGAGGACCAAGCTCATGTCCTCTCA	393	
Db	361	TGGGGCCAGGAGGACCAAGCTCATGTCCTCTCA	393	
RESULT 2				
AAH68641				
ID	AAH68641	standard; DNA; 381 BP.		
TX				

AC	AAH68641;
XX	
DT	
XX	14-SEP-2001 (first entry)
DE	Human anti-Rh(D) chain E0Lis nucleotide sequence.
XX	
XX	Human: anti-Rh(D) antibody; Rh(D) binding protein; immunostimulant;
KW	red blood cell; Rh phenotype; diagnosis; therapeutic; ds.
XX	
OS	Homo sapiens.
XX	
FN	US625455-B1.
PD	03-JUL-2001.
XX	
PF	29-JAN-1999; 99US-0240274.
XX	
PR	11-OCT-1996; 96US-0028550.
XX	
PR	10-APR-1998; 98US-0081380.
PR	27-JUN-1997; 97US-0884045.
XX	
PA	(UYPE-) UNIV PENNSYLVANIA.
PI	Siegel DL;
DR	WPI; 2001-388931/41.
XX	P-PSDB; AAG93584.
PT	New isolated protein, preferably a human anti-Rh(D) antibody for use in
PT	diagnostics requiring a human instead of an animal antibody and in
PT	therapeutic medicine -
XX	
PS	Example 2; Column 53; 162pp; English.
XX	
CC	The present invention describes an isolated Rh(D) binding protein,
CC	preferably a human antibody, (I) having an amino acid sequence comprising
CC	one of the sequences (S) given in AAG93558 to AAG93669. (II) has
CC	immunostimulant activity, and can be used as an immune system stimulant.
CC	(I) can be used in diagnostic and therapeutic medicine. The antibodies
CC	are used in diagnostics that require human antibodies instead of animal
CC	antibodies, such as determine the Rh phenotype of human red blood cells.
CC	AAH68615 to AAH68726 represent the nucleotide sequence which encode
CC	AAG93558 to AAG93669. AAG93670 to AAG93697 represent anti-Rh(D) heavy
CC	chain CDR3 amino acid sequences which are given in the exemplification
CC	of the present invention.
XX	
SO	Sequence 381 BP; 87 A; 98 C; 113 G; 83 T; 0 other:
Query Match	92.5%; Score 363.6; DB 22; Length 381;
Best Local Similarity	98.9%; Fred. No. 2.5e-98;
Matches 366; Conservative	0; Mismatches 4; Indels 0; Gaps 0;
OY	24 GGTGGAGCTCTGGGGGAGGCCCTGGTCAAGCCTGGGGGGTCCTGAGACTCTCTGTGCAGC 83
Dd	12 GCTGGAGCTCTGGGGGAGGCCCTGGTCAAGCCTGGGGGGTCCTGAGACTCTCTGTGCAGC 71
OY	84 CTCTGGATTCACTTTCACTAGCTATAGCATGCACATGGTGCGCCAGGCTCCAGGGAAGG 143
Dd	72 CTCCTGGATTCACTTTCACTAGCTATAGCATGCACATGGTGCGCCAGGCTCCAGGGAAGG 131
OY	144 GCTGGAGAGGCTCTCATCATTCATTAGTAATAAGTAATACCTAACAATATACCTACGAGACGACAGT 203
Dd	132 GCTGGAGAGGCTCTCATCATTCATTAGTAATAAGTAATACCTAACAATATACCTACGAGACGACAGT 191
OY	204 GAAGGGCCGATTCAACATCTCCAGAGACAAGCCCAAGAAGCACTGATTCGGCAAATGAA 263
Dd	192 GAAGGGCCGATTCAACATCTCCAGAGACAAGCCCAAGAAGCACTGATTCGGCAAATGAA 251
OY	264 CAGCCTTAGAGACCAGACACAGCGCTGTGTACTACTGTGCGAGAGATTCTAATATACAGTAA 323
Dd	252 CAGCCTTAGAGACCAGACACAGCGCTGTGTACTACTGTGCGAGAGATTCTAATATACAGTAA 311
OY	324 TTTCCTCCGTTGGGTTGGAGACGACGGATATGAGACGTCTGGGGCCAAGGAGCACCGAGTCAT 383

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Db      312 TTTCCCTCCGTTGGATTCGAGCAGCGTATGAGACGTCTGGGGCCCAAGGAGCAGCGTCAAT 371
Oy      384 CGTCTCCTCA 393
Db      372 CGTCTCCTCA 381

RESULT 3
ABS46318
ID      ABS46318 standard; DNA; 311 BP.
XX
AC      ABS46318;
XX
DT      25-FEB-2003 (first entry)
XX
DE      Human liver single exon probe, SEQ ID No 21308.
XX
KW      Human; single exon nucleic acid probe; liver; cirrhosis;
KW      hyperlipoproteinaemia; hyperlipidaemia; hypercholesterolaemia;
KW      coronary heart disease; ss.
XX
OS      Homo sapiens.
XX
PN      WO200157273-A2.
XX
PD      09-AUG-2001.
XX
PF      30-JAN-2001; 2001WO-US00664.
XX
PR      04-FEB-2000; 2000US-0180312.
PR      26-MAY-2000; 2000US-0207456.
PR      30-JUN-2000; 2000US-0608408.
PR      03-AUG-2000; 2000US-0632366.
PR      21-SEP-2000; 2000US-0234687.
PR      27-SEP-2000; 2000US-0236359.
PR      04-OCT-2000; 2000GB-0024263.
XX
PA      (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI      Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR      WPI; 2001-488898/53.
XX
PT      Human genome-derived single exon nucleic acid probes useful for
PT      analysing gene expression in human adult liver -
XX
PS      Claim 4; SEQ ID No 21308; 658bp; English.
XX
CC      The invention relates to a single exon nucleic acid probe (SENP) (I) for
CC      measuring human gene expression in a sample derived from human adult
CC      liver, comprising one of 13109 defined nucleotide sequences given in the
CC      specification (or complements/ fragments). The probe hybridises at high
CC      stringency to a nucleic acid molecule expressed in the human adult
CC      liver. (I) may be used for predicting, measuring and displaying gene
CC      expression in samples derived from human adult liver. The genes
CC      identified may be involved in genetic liver diseases such as cirrhosis,
CC      hyperlipoproteinaemia, hyperlipidaemia and hypercholesterolaemia which
CC      is associated with coronary heart disease. ABS25011-ABS51005 represent
CC      human liver single exon nucleic acid probes of the invention.
CC      Note: The sequence information for this patent does not appear in the
CC      printed specification but was obtained in electronic format directly
CC      from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ      Sequence 311 BP; 73 A; 75 C; 96 G; 67 T; 0 other;

Query Match      69.3%; Score 272.2; DB 23; Length 311;
Best Local Similarity 97.2%; Pred. No. 3.8e-71;
Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Oy      84 CTCTGATTCACCTTCAGTATATACATGACACTGGGTCCCGAGGATCCAGGAAGG 143
Db      83 CTCTGATTCACCTTCAGTATATACATGACACTGGGTCCCGAGGATCCAGGAAGG 142
Oy      144 GCTGAGTGGGTCTCATTCATTTAGTAATATCTTACATTTACTACGACAGCAGT 203
Db      143 GCTGAGTGGGTCTCATTCATTTAGTAATATCTTACATTTACTACGACAGCAGT 202
Oy      204 GAAGGGCCGATTCACCTTCAGTATATACATGACACTGGGTCCCGAGGATCCAGGAAGG 263
Db      203 GAAGGGCCGATTCACCTTCAGTATATACATGACACTGGGTCCCGAGGATCCAGGAAGG 262
Oy      264 CAGCCTGAGAGCCGAGCAGCAGCGCTGTGTACTTACTGTGCGAGAGA 308
Db      263 CAGCCTGAGAGCCGAGCAGCAGCGCTGTGTACTTACTGTGCGAGAGA 307

RESULT 4
ABS20923
ID      ABS20923 standard; DNA; 311 BP.
XX
AC      ABS20923;
XX
DT      19-AUG-2002 (first entry)
XX
DE      Human genome-derived single exon ORF from lung SEQ ID No 20914.
XX
KW      Human; ds; single exon probe; asthma; lung cancer; COPD; ILD;
KW      chronic obstructive pulmonary disease; interstitial lung disease;
KW      familial idiopathic pulmonary fibrosis; neurofibromatosis;
KW      tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
KW      Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemosiderosis;
KW      pulmonary histiocytosis; lymphangioleiomyomatosis; Karagenen syndrome;
KW      pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
KW      primary ciliary dyskinesia; pulmonary hypertension;
KW      hyaline membrane disease; open reading frame; ORF.
XX
OS      Homo sapiens.
XX
PN      WO200186003-A2.
XX
PD      15-NOV-2001.
XX
PF      30-JAN-2001; 2001WO-US00665.
XX
PR      04-FEB-2000; 2000US-180312P.
PR      26-MAY-2000; 2000US-207456P.
PR      30-JUN-2000; 2000US-0608408.
PR      03-AUG-2000; 2000US-0632366.
PR      21-SEP-2000; 2000US-234687P.
PR      27-SEP-2000; 2000US-236359P.
PR      04-OCT-2000; 2000GB-0024263.
XX
PA      (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI      Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR      WPI; 2002-114183/15.
XX
PT      Spatially-addressable set of single exon nucleic acid probes, used to
PT      measure gene expression in human lung samples -
XX
PS      Claim 4; SEQ ID No 20914; 634bp; English.
XX
CC      The invention relates to a spatially-addressable set of single exon
CC      nucleic acid probes for measuring gene expression in a sample derived
CC      from human lung comprising single exon nucleic acid probes having one of
CC      12614 nucleic acid sequences mentioned in the specification, or their
CC      complements or the 12387 open reading frames derived from the 12614
CC      probes. Also included are a microarray comprising the novel set of
CC      probes; the novel set of probes which hybridise at high stringency to a
CC      nucleic acid expressed in the human lung; measuring gene expression in a

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CC sample derived from human lung, comprising (a) contacting the array with
 CC a collection of detectably labeled nucleic acids derived from human lung
 CC mRNA, and (b) measuring the label detectably bound to each probe of
 CC the array; identifying exons in a eukaryotic genome, comprising
 CC (a) algorithmically predicting at least one exon from genomic sequences
 CC of the eukaryote; and (b) detecting specific hybridisation of detectably
 CC labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
 CC having a fragment identical to the predicted exon, the probe is included
 CC in the above mentioned microarray; assigning exons to a single gene,
 CC comprising (a) identifying exons from genomic sequence by the method
 CC above and (b) measuring the expression of each of the exons in several
 CC tissues and/or cell types using hybridisation to a single exon
 CC microarrays having a probe with the exon, where a common pattern of
 CC expression of the exons in the tissues and/or cell types indicates that
 CC the exons should be assigned to a single gene; a peptide comprising one
 CC of 1201 sequences, mentioned in the specification, or encoded by the
 CC probes/open reading frames (ORF). The probes are used for gene
 CC expression analysis, and for identifying exons in a gene, particularly
 CC using human lung derived mRNA and for the study of lung diseases
 CC such as asthma, lung cancer, chronic obstructive pulmonary disease
 CC (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
 CC fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
 CC Niemann-Pick disease, Hereditary Rudiak syndrome, sarcoidosis, pulmonary
 CC hamman-Rich disease, Hereditary histiocytosis, lymphangioleiomyomatosis,
 CC pulmonary alveolar proteinosis, Karsenger syndrome, fibrocystic
 CC and hyaline membrane disease. The present sequence is a single exon
 CC probe open reading frame of the invention.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 CC
 CC Sequence 311 BP; 73 A; 75 C; 96 G; 67 T; 0 other;

Query Match 69.3%; Score 272.2; DB 24; Length 311;
 Best Local Similarity 97.2%; Pred. No. 3.8e-71;
 Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTGCAAGCGTGGGGGCGCTGAGACTCTCTGTGAGC 83
 DB 23 GGTGAGTCTGGGGAGGCGCTGTGCAAGCGTGGGGGCGCTGAGACTCTCTGTGAGC 82
 OY 84 CTCTGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 143
 DB 83 CTCTGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 142
 OY 144 GCTGAGTGGGTCTCATCCATTAAGTATAGTAATACATATACAGCAGAGCAGT 203
 DB 143 GCTGAGTGGGTCTCATCCATTAAGTATAGTATAGTAATACATATACAGCAGAGCAGT 202
 OY 204 GAAGGGCGGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 263
 DB 203 GAAGGGCGGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 262
 OY 264 CAGCGGTGAGGCGGAGCAGCAGGCTGTGTACTACTGTGCGAGAGA 308
 DB 263 CAGCGGTGAGGCGGAGCAGCAGGCTGTGTACTACTGTGCGAGAGA 307

RESULT 5
 AAQ78959 standard; DNA: 519 BP.
 XX AAQ78959:
 XX
 XX 25-MAR-2003 (updated)
 XX 03-AUG-1995 (first entry)
 XX
 XX Human immunoglobulin Vh gene #21.
 XX
 XX Primer: PCR: amplify: human; immunoglobulin: variable; heavy chain;
 KW cosmid; placenta; vector; pUB1; E.coli; mammalian; ds.

XX Homo sapiens.
 OS
 XX Key Location/Qualifiers
 FH CDS 11..462
 FT /*tag= a
 FT /product= human immunoglobulin variable heavy chain
 FT Intron 57..157
 FT /*tag= b
 FT misc_signal 463..465
 FT /*tag= c
 FT /note= "miscellaneous signal, does not conform to
 termination or splice site sequence"

W09426895-A1.
 24-NOV-1994.

10-MAY-1993: 93WO-JP00603.
 10-MAY-1993: 93WO-JP00603.

(NIBS) JAPAN TOBACCO INC.

Honjo T, Matsuda F;

WPI, 1995-006791/01.

P-PSDB: AAR6313.

DNA fragment comprising human immunoglobulin Vh genes - for the
 production of human immunoglobulin in mammalian hosts
 Claim 30: "Page 57-58; 130pp; Japanese.

CC A series of genes (AAQ78939-79002) encoding human immunoglobulin
 CC variable heavy chains. The genes were isolated and cloned from a series
 CC of cosmid constructs: Y202; Y103; Y21; Y6; Y24; 3-31; M4; M18 and M131,
 CC by PCR amplification using primers AAQ78917-38. The genes are subdivided
 CC into 5 families of Vh genes. The fragments cover a region of 800 kb.
 CC The DNA fragments were isolated from high molecular weight DNA from
 CC human placenta. The DNA was partially digested with Taqi restriction
 CC enzyme. The fragments were separated by gel electrophoresis and 35-45 kb
 CC cosmid vector pUB1. The ligation products were ligated with ClaI-digested
 CC hybridisation. The Vh genes and the DNA fragments were then subcloned by colony
 CC useful in producing human immunoglobulin in mammalian hosts.
 CC (updated on 25-MAR-2003 to correct PN field.)

SO Sequence 519 BP; 123 A; 111 C; 161 G; 124 T; 0 other;
 Query Match 69.3%; Score 272.2; DB 16; Length 519;
 Best Local Similarity 97.2%; Pred. No. 4.5e-71;
 Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTGCAAGCGTGGGGGCGCTGAGACTCTCTGTGAGC 83
 DB 180 GGTGAGTCTGGGGAGGCGCTGTGCAAGCGTGGGGGCGCTGAGACTCTCTGTGAGC 239
 OY 84 CTCTGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 143
 DB 240 CTCTGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 299
 OY 144 GCTGAGTGGGTCTCATCCATTAAGTATAGTAATACATATACAGCAGAGCAGT 203
 DB 300 GCTGAGTGGGTCTCATCCATTAAGTATAGTATAGTAATACATATACAGCAGAGCAGT 359
 OY 204 GAAGGGCGGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 263
 DB 360 GAAGGGCGGATTCACCTTCTGAGTACTAGTACGATGCTGGTCCGCGAGGTCGAGGAGGG 419
 OY 264 CAGCGGTGAGGCGGAGCAGCAGGCTGTGTACTACTGTGCGAGAGA 308
 DB 111 C; 161 G; 124 T; 0 other;

ID	Sequence	Score	DB	Length
Db	420 CAGCCTGAGAGCCGAGACAGGCGCTGTATTACTGTCGAGAGA	464		
RESULT 6				
AAF29047	standard; DNA; 375 BP.			
XX	AAF29047			
XX	AAF29047			
XX	03-APR-2001 (first entry)			
DE	Human HIV-1 monoclonal antibody coding sequence SHQ ID NO: 3.			
XX	Human immunodeficiency virus-1; HIV-1; human monoclonal antibody;			
XX	envelope glycoprotein; gp120; diagnosis; ds.			
XX	Homo sapiens.			
XX	MO200100678-A1.			
XX	04-JAN-2001.			
XX	23-JUN-2000; 2000WO-US17327.			
XX	30-JUN-1999; 99US-0141701.			
XX	(USSH) US DEPT HEALTH & HUMAN SERVICES.			
XX	Watkins BA, Reitz MS;			
XX	WPI: 2001-112438/12.			
XX	P-PSDB; AAB62746.			
XX	Novel human monoclonal antibody immunoreactive with human			
XX	immunodeficiency virus-1 glycoprotein gp120, useful for detecting HIV-1			
XX	in biological sample and providing passive immunotherapy to HIV-1			
XX	infected mammal			
XX	Claim 4; Page 35; 81pp; English.			
XX	The present invention provides the protein and coding sequences for the			
XX	variable regions of human monoclonal antibodies which are immunoreactive			
XX	with human immunodeficiency virus-1 (HIV-1) envelope glycoprotein gp120.			
XX	These can be used in diagnosis and therapy of HIV-1 infection.			
XX	Sequence 375 BP; 83 A; 96 C; 113 G; 83 T; 0 other;			
XX	Query Match	69.2%;	Score 271.8;	DB 22; Length 375;
XX	Best Local Similarity	86.1%;	Pred. No. 5.3e-71;	
XX	Matches 316; Conservative 0;	Mismatches 42;	Indels 9;	Gaps 1;
XX	27 GGAGTCTGGGGGAGCCCTGCTCAAGCCTGGGGGGTCCCTGAGACTCTCTGTGACGCTC	86		
XX	18 GGAGTCGGGGGAGGCTTGTGACACCCCTGGGGGGTCCCTGAGACTCTCTGTGACGCTC	77		
XX	87 TGGATTCACTTCACTAGCTATGACATGACATGCGGTCGCCAGGCTCCAGGAGGGGCT	146		
XX	78 TGGATTCACTTCACTAGCTATGACATGACATGCGGTCGCCAGGCTCCAGGAGGGGCT	137		
XX	147 GGAAGTGGTCTCATCATTACTTAATAGTAATACTTACTTATATACGAGACGACAGTGA	206		
XX	138 GGAGTGGTCTCATCATTACTTAATAGTAATAGTATGATGATGATGATGATGATGATG	197		
XX	207 GGGCCGATTCACATCTTCCAGAGACAGCCCAAGACCTCAGTATCTGCAATATGACAG	266		
XX	198 GGGCCGATTCACATCTTCCAGAGACAGCCCAAGACCTCAGTATCTGCAATATGACAG	257		
XX	267 CCGTAGAGCCAGACAGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	326		
XX	258 CCGTAGAGCCAGACAGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	317		
XX	327 CCGTAGAGCCAGACAGAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	386		

Db	318	TGGGTACT-----CCTAGCGTGTGAGCTCTGGGGCCAGAGGACACGATCACCGT	368
OY	387	CTCCTCA 393	
Db	369	CTCCTCA 375	
RESULT 7			
AAD46290			
XX	AAD46290	standard; DNA; 348 BP.	
XX			
AC	AAD46290;		
XX			
DT	27-DEC-2002	(first entry)	
XX			
DE	Human KDR (VEGFR-2) Fab heavy chain (VH) DNA from D2C6 clone.		
XX			
KW	Human: tumour; vascular endothelial growth factor receptor; metastasis;		
KW	epidermal growth factor receptor; non-small cell lung carcinoma; NSCLC;		
KW	breast; VEGFR; heart; EGFR; therapy; invasiveness; heavy chain; gene;		
XX	VH; ds.		
XX			
OS	Homo sapiens.		
XX			
FH	Key	Location/Qualifiers	
FT	CDS	1..348	
FT		/*tag= a	
FT		/product= "Human KDR (VEGFR-2) Fab heavy chain (VH)	
FT		protein"	
FT		/note= "CDS does not include start and stop codon"	
FT		/partial	
XX			
PN	WO200270008-A1.		
XX			
PD	12-SEP-2002.		
XX			
PF	04-MAR-2002; 2002WO-US06762.		
XX			
PR	02-MAR-2001; 2001US-0798689.		
XX			
PA	(IMCL-) IMCLONE SYSTEMS INC.		
XX	(ROCK/) ROCKWELL P.		
PA	(GOLD/) GOLDSTEIN N I.		
XX			
DR	WPI: 2002-691738/74.		
XX	P-PSDB: AAE28870.		
XX			
PT	Inhibiting tumor growth in humans involves administering vascular		
PT	endothelial growth factor receptor antagonists in combination with		
PT	radiation, chemotherapeutic agents, or epidermal growth factor receptor		
XX	antagonists -		
PS	Example 9; Page 121-122; 151pp; English.		
XX			
CC	The invention relates to a method of inhibiting tumour growth which		
CC	involves administering, vascular endothelial growth factor receptor		
CC	(VEGFR) antagonists in combination with radiation, chemotherapeutic		
CC	agent, or epidermal growth factor receptor (EGFR) antagonist. The method		
CC	is useful for inhibiting tumour growth in a human, where the tumour (e.g		
CC	tumour of the breast, heart, lung, small intestine, colon, spleen, bone,		
CC	kidney, bladder, head and neck, ovary, prostate, brain, pancreas, skin,		
CC	bone marrow, blood, thymus, uterus, testicles, cervix or liver) over		
CC	expresses VEGFR. It is also useful for inhibiting growth of colon tumour		
CC	or non-small cell lung carcinoma (NSCLC) and tumour overexpressing EGFR.		
CC	It is preferably useful for treating subjects with both solid tumours,		
CC	preferably high vascular tumours and non-solid tumours. The inhibition		
CC	or reduction of tumour growth includes prevention or inhibition of the		
CC	progression of tumour, including cancerous and non-cancerous tumours,		
CC	where the progression of tumours includes the invasiveness, metastasis,		
CC	recurrence and increase in size of the tumour. The present sequence is		
CC	human KDR (VEGFR-2) Fab antibody heavy chain DNA.		
XX			
Sequence	348 BP; 82 A; 85 C; 105 G; 76 T; 0 other;		

DR	WP1: 2003-201468/19.
DR	P-PSDB; ABJ26763.
XX	
PT	New bispecific antibodies having antigen-binding sites specific for a
PT	first vascular endothelial growth factor (VEGF) receptor and for a
PT	second VEGF receptor, useful for inhibiting migration of leukemia
XX	cells, or for treating tumors -
PS	Disclosure; Page 70; 98pp; English.
XX	
CC	The invention relates to a novel antibody having a first antigen binding
CC	site specific for a first vascular endothelial growth factor (VEGF)
CC	receptor and a second antigen-binding site specific for a second VEGF
CC	receptor. The bispecific antigen-binding proteins block activation of the
CC	VEGF receptor and are useful for reducing or inhibiting VEGF-induced
CC	cellular functions such as angiogenesis of vascular endothelial cells
CC	and migration of leukaemia cells. The antibodies are useful for treating
CC	tumours and for in vivo or in vitro for investigative and diagnostic
CC	methods. This polynucleotide sequence represents a human DNA sequence of
CC	relating to the bispecific antibodies that bind to the VEGF receptors of
CC	the invention.
SQ	
XX	Sequence 348 BP; 82 A; 85 C; 105 G; 76 T; 0 other;
Query Match	68.6%; Score 269.6; DB 25; Length 348;
Best Local Similarity	96.8%; Pred. No. 2.3e-70;
Matches 275; Conservative	0; Mismatches 9; Indels 0; Gaps 0;
OY	
Db	12 GGTCGAGCTGTGGGGAGGCCGTGCACGCCCTGGGGGGTCCCTGACACTCCTGTGCAGC 83
	12 GGTCGAGCTGTGGGGAGGCCCTGTGCACGCCCTGGGGGGTCCCTGACACTCCTGTGCAGC 71
OY	
Db	84 CTCGTGATTCACCTTCAGTAGCTATTAGCATCCACTGGGTCCCGCAGGCTCCAGGGAAGG 143
	72 CTCGTGATTCACCTTCAGTAGCTATTAGCATGAACGTGGTCCGCGCAGGCTCCAGGGAAGG 131
OY	
Db	144 GCTGGAGTGCGCTTCATCATCTTAAGTAATAGTAATCTTACATPATCTAGCGACGCACT 203
	132 GCTGGAGTGCGCTTCATCATCTTAAGTAATAGTAATAGTAATCTTACATPGCAGACTCAGT 191
OY	
Db	204 GAAGGGCCGATTCACCATCTCCAGAGACAAGCCAAAGCACTGATNTGCAATAAGAA 263
	192 GAAGGGCCGATTCACCATCTCCAGAGACAAGCCAAAGCACTGATNTGCAATAAGAA 251
OY	
Db	264 CAGCCTGAGAGCCGAGCACAGCGGCTGTACTACTGTCCGAGAG 307
	252 CAGCCTGAGAGCCGAGCACAGCGGCTGTATTACTGTCCGAGAG 295
RESULT 10	
ABT23327	
ID	ABT23327 standard; DNA; 348 BP.
XX	
AC	ABT23327;
XX	
Dt	01-MAY-2003 (first entry)
XX	
DE	VEGF binding related DNA SEQ ID NO 79.
XX	
KW	Cytostatic; antibody; antigen binding site; VEGF receptor; mitogenesis;
KW	leukemia cell; vascular endothelial growth factor; tumour;
KW	bispecific antigen-binding protein; human; gene; ds.
XX	
OS	Homo sapiens.
XX	
PN	WO2003002144-A1.
XX	
PD	09-JAN-2003.
XX	
PF	26-JUN-2002; 2002WO-US20332.
XX	
PR	26-JUN-2001; 2001US-301299P.
XX	

PA	(IMCL--)	IMCLONE SYSTEMS INC.
XX	P1	Zhu Z;
XX	XX	
DR	WPI:	2003-201468/19.
XX		
PT	New bispecific antibodies having antigen-binding sites specific for a first vascular endothelial growth factor (VEGF) receptor and for a second VEGF receptor, useful for inhibiting migration of leukemia cells, or for treating tumors -	
PS	Disclosure; Page 72; 98pp; English.	
CC	The invention relates to a novel antibody having a first antigen binding site specific for a first vascular endothelial growth factor (VEGF) receptor and a second antigen-binding site specific for a second VEGF receptor. The bispecific antigen-binding proteins block activation of the VEGF receptor and are useful for reducing or inhibiting VEGF-induced cellular functions such as mitogenesis of vascular endothelial cells and migration of leukaemia cells. The antibodies are useful for treating tumours and for in vivo or in vitro for investigative and diagnostic methods. This polynucleotide sequence represents a human DNA sequence relating to the bispecific antibodies that bind to the VEGF receptors of the invention.	
CC		
CC		
CC		
CC		
SQ	Sequence 348 BP; 82 A; 86 C; 104 G; 76 T; 0 other;	
Query Match	Best Local Similarity 96.8%; Pred. No. 2.3e-70;	
Matches	275; Conservative 0; Mismatches 9; Indels 0; Gaps 0	
OY	24 GGGTGAGTCTGGGGAGGCCGTGCACCGTGGGGGTCCTGAGACTCCTCTGTGCAGC 	83
Dd	12 GGTCGAGACTGTGGGGAGSGCTGTGFCAACCTGTGGGGGTCCCTGAGACTCTCTGTGCAGC 	71
OY	84 CTCGTGATTCACCCTTCAGTAAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAAGG 	143
Dd	72 CTCGTGATTCACCCTTCAGTAAGCATGAACGTGGGTCCGCCAGGGTCCAGGGAAAGG 	131
OY	144 GCTGGAGTGGGTCCATCATTTAGTAATAATTACTATACATATCTACGACGACGACGT 	203
Dd	132 GCTGGAGTGGGTCCATCATTTAGTAATAATTACTATACATATCTACGACGACGACGT 	191
OY	204 GAAGGGCCGATTACCATCTCCAGAGACAAGCCCAAGAAGCTGATCTCTCCAATGAA 	263
Dd	192 GAAGGGCCGATTACCATCTCCAGAGACAAGCCCAAGAAGCTGATCTCTCCAATGAA 	251
OY	264 CAGCCTGAGAGCCGAGCACACGCGCTGTGTACTACTGTGCGAAG 307 	
Dd	252 CAGCCTGAGAGCCGAGCACACGCGCTGTGTACTACTGTGCGAAG 295 	
RESULT 11		
ID	ABS62722 standard; DNA; 376 BP.	
XX	ABS62722;	
DT	24-OCT-2002 (first entry)	
XX		
DE	Anti-IGF-IR antibody VH chain DNA consensus sequence #1.	
XX		
KM	Insulin-like growth factor I receptor; antibody; human; ds; gene; cytostatic; osteopapic; antiatherosclerotic; antiproliferative; IGF-IR; tumour; anti-neoplastic; anti-tumour; anti-angiogenic; neuropathy; osteoporosis; acromegaly; gigantism; psoriasis; atherosclerosis.	
XX	Homo sapiens.	
NN	WO200253596-A2.	
DD	11-JUL-2002.	

XX 20-DEC-2001; 2001WO-US51113.
 XX
 XX 05-JAN-2001; 2001US-259927P.
 XX
 XX (PFIZ) PFIZER INC.
 XX (ABGE-) ABGENIX INC.
 XX
 XX Cohen BD, Beebe J, Miller PE, Moyer JD, Corvalan JR, Gallo M;
 XX
 XX MPI: 2002-575410/61.
 XX
 XX Novel humanized, chimeric monoclonal antibody that specifically binds
 XX to insulin-like growth factor I (IGF-I) receptor useful for inhibiting
 XX binding of IGF-I or IGF-II to receptor and for treating cancer in
 XX humans -
 XX
 XX Disclosure: Figure 2A; 172pp; English.
 XX
 XX This invention relates to a novel humanised, chimeric or human
 XX monoclonal antibody or its antigen binding portion that specifically
 XX binds to insulin-like growth factor I receptor (IGF-IR). The antibodies
 XX of the invention can act as an inhibitor of binding of IGF-I or IGF-II
 XX with IGF-IR and can inhibit in vivo tumour growth and IGF-IR tyrosine
 XX phosphorylation. The antibodies of the invention are useful for
 XX diagnosing the presence or location of an IGF-IR-expressing tumour in a
 XX subject. The antibody or its antigen-binding portion is also useful for
 XX treating cancer in a human. The method for this further involves an anti
 XX neoplastic, anti-tumour, anti-angiogenic or chemotherapeutic agent.
 XX The antibodies may also be useful for increasing IGF-IR activity and
 XX thus restoring IGF-IR activity in a condition characterised by low
 XX IGF-IR levels e.g. neuropathy, or osteoporosis. An antibody of the
 XX invention is also useful for inducing apoptosis of specific cells in a
 XX patient, and to treat non-cancerous states or disease, e.g. acromegaly,
 XX gigantism, psoriasis and atherosclerosis. Fully human anti-IGF-IR
 XX antibodies minimise the immunogenic and allergic responses intrinsic to
 XX mouse or mouse-derived monoclonal antibodies and thus increase the
 XX efficacy and safety of the administered antibodies. The present sequence
 XX represents a DNA sequence encoding an anti-insulin-like growth
 XX factor I receptor antibody of the invention.
 XX
 XX Sequence 376 BP; 87 A; 91 C; 110 G; 82 T; 6 other;
 XX
 XX Query Match 68.4%; Score 268.8; DB 24; Length 376;
 XX Best Local Similarity 83.8%; Pred. No. 4,1e-70;
 XX Matches 310; Conservative 6; Mismatches 48; Indels 6; Gaps 1;
 XX
 XX 24 GGTGAGCTCTGGGAGAGCGCTGTCACAGCTGGGGGGCTCTGAGACTCTCTGTGCAGC 83
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 12 GGTGAGCTCTGGGAGAGCGCTGTCACAGCTGGGGGGCTCTGAGACTCTCTGTGCAGC 71
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 84 CTCGTGATTACCTTCACTAGTATAGCATGCTGGTCCGCCAAGGCTCCAGGAAGG 143
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 72 CTCGTGATTACCTTCACTAGTATAGCATGCTGGTCCGCCAAGGCTCCAGGAAGG 131
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 144 GCTGAGTGGCTCTCATCATTAATATAGTAACTTACATATATACGACGCACT 203
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 132 GCTGAGTGGCTCTCATCATTAATATAGTAACTTACATATATACGACGCACT 191
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 204 GAAGGCGCCGATTCACATCTCCAGAGAACGCCAAGAACTGATATGCAATGAA 263
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 192 GAAGGCGCCGATTCACATCTCCAGAGAACGCCAAGAACTGATATGCAATGAA 251
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 264 CAGCTGAGAGCCGAGACAGCGCTGTACTAGTGTGCGAGAACTTACATGACAGTAC 323
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 252 CAGCTGAGAGCCGAGACAGCGCTGTACTAGTGTGCGAGAACTTACATGACAGTAC 311
 XX ||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 XX 324 TTTCTCCGTTGGGTTGGAGAGCGATGAGACGCTGGGGCCAAAGGACACAGGTATC 383
 XX ||||| ||||| ||||||||||||||||||||||||||||||||||||||||
 XX 312 TTT-----TTACTACTACTACTAGGATGAGAGCTGTGGGGCCAAAGGACACAGGTATC 365
 XX ||||| ||||| ||||||||||||||||||||||||||||||||||||||||
 XX 384 CGTCTCTCA 393
 XX |||||||||||

DB 366 CGTCTCTCA 375
 XX
 XX RESULT 12
 XX AAD46294
 XX ID AAD46294 standard; DNA; 348 BP.
 XX
 XX AAD46294;
 XX
 XX 27-DEC-2002 (first entry)
 XX
 XX Human KDR (VEGFR-2) Fab heavy chain (VH) DNA from D2H2 clone.
 XX
 XX Human: tumour; vascular endothelial growth factor receptor; metastasis;
 XX epidermal growth factor receptor; non-small cell lung carcinoma; NSCLC;
 XX breast; VEGFR; heart; EGFR; therapy; invasiveness; heavy chain; gene;
 XX VH; ds.
 XX
 XX Homo sapiens.
 XX
 XX Key Location/Qualifiers
 XX CDS 1..348
 XX /*tag= a
 XX /product= "Human KDR (VEGFR-2) Fab heavy chain (VH)
 XX protein"
 XX /note= "CDS does not include start and stop codon"
 XX /partial
 XX
 XX WO200270008-A1.
 XX
 XX 12-SEP-2002.
 XX
 XX 04-MAR-2002; 2002WO-US06762.
 XX
 XX 02-MAR-2001; 2001US-0798689.
 XX
 XX (IMCL-) IMCLONE SYSTEMS INC.
 XX (ROCK/) ROCKWELL P.
 XX (GOLD/) GOLDSTEIN N I.
 XX
 XX MPI: 2002-691738/74.
 XX P-PSDB: AAE26873.
 XX
 XX Inhibiting tumor growth in humans involves administering vascular
 XX endothelial growth factor receptor antagonists in combination with
 XX radiation, chemotherapeutic agents, or epidermal growth factor receptor
 XX antagonists -
 XX
 XX Example 12; Page 126; 151pp; English.
 XX
 XX The invention relates to a method of inhibiting tumour growth which
 XX involves administering, vascular endothelial growth factor receptor
 XX (VEGFR) antagonists in combination with radiation, chemotherapeutic
 XX agent, or epidermal growth factor receptor (EGFR) antagonist. The method
 XX is useful for inhibiting tumour growth in a human, where the tumour (e.g.
 XX tumour of the breast, heart, lung, small intestine, colon, spleen, bone,
 XX kidney, bladder, head and neck, ovary, prostate, brain, pancreas, skin,
 XX bone marrow, blood, thymus, uterus, testicles, cervix or liver) over
 XX expresses VEGFR. It is also useful for inhibiting growth of colon tumour
 XX or non-small cell lung carcinoma (NSCLC) and tumour overexpressing EGFR.
 XX It is preferably useful for treating subjects with both solid tumours,
 XX preferably high vascular tumours and non-solid tumours. The inhibition
 XX or reduction of tumour growth includes prevention or inhibition of the
 XX progression of tumour, including cancerous and non-cancerous tumours,
 XX where the progression of tumours includes the invasiveness, metastasis,
 XX recurrence and increase in size of the tumour. The present sequence is
 XX human KDR (VEGFR-2) Fab antibody heavy chain DNA.
 XX
 XX Sequence 348 BP; 82 A; 85 C; 105 G; 76 T; 0 other;
 XX
 XX Query Match 68.2%; Score 268; DB 24; Length 348;
 XX Best Local Similarity 96.5%; Pred. No. 7e-70;
 XX Matches 274; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY	2	GGGAGAGTGTGGGGGAGGCGCTGGTCAACCTCGGGGGGGCCCTGAGACGTCGTCGGAGC	83
Db	12	GGGAGAGTGTGGGGGAGGCGCTGGTCAACCTCGGGGGGGCCCTGAGACGTCGTCGGAGC	71
QY	84	CTCTGGATTTACCTTCAGTAGTAGTATAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG	143
Db	72	CTCTGGATTTACCTTCAGTAGTAGTATAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG	131
QY	144	GGTGGAGTGGGGTCTCATCCATTAGTAAGTAAGTAATCTCACTACATACGACGAGCGAGT	203
Db	132	GCTGGAGTGGGGTCTCATCCATTAGTAAGTAAGTAATCTCACTACATACGACGAGCTAGT	191
QY	204	GAAAGGCGCATTCACCATCTCCAGAGACAGCCCAAGACACTGATCTGCAAAATGAA	263
Db	192	GAAAGGCGCATTCACCATCTCCAGAGACAGCCCAAGACACTGATCTGCAAAATGAA	251
QY	264	CACCTGTAGAGCGAGACAGCGGCTGTGTACTACTACTGTCGAGAG	307
Db	252	CACCTGTAGAGCGAGACAGCGGCTGTGTATTACTGTGCGAGAG	295

RESULT 13
ABT23329
ID ABT23329 standard; DNA; 348 BP.

AC ABT23329;

DT 01-MAY-2003 (first entry)

DE VEGF binding related DNA SEQ ID No 82

KW Cytostatic; antibody; antigen binding site; VEGF receptor; mitogenesis
KW leukaemia cell; vascular endothelial growth factor; tumour;
KW bispecific antigen-binding protein; human; gene; ds.

OS Homo sapiens.

PN WO2003002144-A1.

PD 09-JAN-2003.

PF 26-JUN-2002; 2002WO-US20332.

PR 26-JUN-2001; 2001US-301299P.

PA (IMCL-) IMCLONE SYSTEMS INC.

Zhu Z;

DR WPI; 2003-201468/19.
P-PEND: 20136765

DR P-PSDB; ABJ26765.

PT New bispecific antibodies having antigen-binding sites specific for a first vascular endothelial growth factor (VEGF) receptor and for a second VEGF receptor, useful for inhibiting migration of leukemia PT cells, or for treating tumors -

PS Disclosure; Page 73-74; 98pp; English

CC The invention relates to a novel antibody having a first antigen binding
CC site specific for a first vascular endothelial growth factor (VEGF)
CC receptor and a second antigen-binding site specific for a second VEGF
CC receptor. The bispecific antigen-binding proteins block activation of the
CC VEGF receptor and are useful for reducing or inhibiting VEGF-induced
CC cellular functions such as mitogenesis of vascular endothelial cells
CC and migration of leukaemia cells. The antibodies are useful for treating
CC tumours and for *in vivo* or *in vitro* for investigative and diagnostic
CC methods. This polynucleotide sequence represents a human DNA sequence
CC relating to the bispecific antibodies that bind to the VEGF receptors of
CC the invention.

Sequence 348 BP; 82 A; 85 C; 105 G; 76 T; 0 other;

Query Match	68.2%;	Score 268;	DB 25;	Length 348;
Best Local Similarity	96.5%;	Pred. No. 7e-70;		
Matches 274;	Conservative 0;	Mismatches 10;	Indels 0;	Gaps 0;

Qy	2	GGGAGAGTGTGGGGGAGGCGCTGGTCAACGTCGTGGGGGGTCCGTGAGACTCTCTGTGCAG	83
Db	12	GGTGCAGTCTGGGGGAGGCGCTGGTCAACGTCGTGGGGGGTCCGTGAGACTCTCTGTGCAGC	71
Qy	84	CTCTGGATTACACCTTCAGTACGTATAGCATGACTGGTCCGCCAGGGTCCAGGGAAGG	143
Db	72	CTCTGGATTACACCTTCAGTACGTATAGCATGAACTGGTCCGCCAGGGTCCAGGGAAGG	131
Qy	144	GGTGAAGTGGGTCTATCCATTAGTAATATAGTAATCTATCATATACTAGTACGACGAGAGT	203
Db	132	GCTGGAGTGGGTCTATCCATTAGTAATATAGTAATCTATCATATACTAGTACGACGAGT	191
Qy	204	GAAAGGCGGATTCACCATCTCCAGAGACAGCCCAAGACTACTGTATCTGCAAAATGAA	263
Db	192	GAAAGGCGCATTCACCATCTCCAGAGACAGCCCAAGACTACTGTATCTGCAAAATGAA	251
Qy	264	CAGCCTGAGAGCCGAGACAGCGGTGTAGTACTAGTGTGCGAGAG	307
Db	252	CAGCCTGAGAGCCGAGAGACAGCGGTGTATATTACTGTGCGAGAG	295

RESULT 14

ID	AAH41153	standard; DNA; 458 BP.

AC AAH41153,

DT 22-AUG-2001 (first entry)

Human coding sequence SEQ ID 3.

KW Human; antiarthritic; cardiant; monoclonal antibody; keloid; arthritis;

signal transduction inhibition; tissue fibrosis; atherosclerosis; ds.

OS Homo sapiens.

PN W0200136642-A1
XY

PD 25-MAY-2001.
xy

PE 17-NOV-2000; 2000W0-JP08129
XY

PR	18-NOV-1999;	99JP-0328681
PR	08-NOV-2000;	2000JP-0340216

PA (NISE) JAPAN TOBACCO INC.

PI Sakamoto S, Kamada M;

DR WPI; 2001-343825/36.

DR P-PSDB; AAB99111.

PT Human monoclonal antibodies recognizing human TGF-beta II receptor
PT useful for treating TGF-beta associated diseases such as tissue
PT fibrosis -

PS Example 12; Page 94-95; 118pp; Japanese.

The present invention relates to novel human monoclonal antibodies. The antibodies can bind to human Tumour Growth Factor-beta (TGF-beta) II receptor, resulting in the inhibition of the signal transduction of human TGF-beta into cells. The antibodies can be used for the prevention and treatment of diseases associated with the production of TGF-beta, such as tissue fibrosis in the lung, liver, skin, kidney or other tissues, atherosclerosis, atopy, keloid and arthritis. The present sequence was used in the present invention.


```

PR 17-NOV-1997; 97EP-0120096.
XX
XX (KUFE/) KUFE P.
XX
XX Borschert K, Kufer P, Lutterbuese R, Raum T, Zettl F;
XX WPI: 1999-338004/28.
XX P-PSDB; AAY17954.
XX
XX Phage display system for identification of binding site domains
XX retaining capacity to bind an epitope
XX
XX Disclosure: Fig 3.1; 152pp; English.
XX
XX The invention relates to a method of identifying binding site domains
XX (BSD) that retain the capacity of binding to a predetermined epitope when
XX positioned C-terminal of at least one further domain in a recombinant bi-
XX or multivalent polypeptide. The method comprises (a) testing a panel of
XX BSD displayed on the surface of a biological display system as part of a
XX fusion protein for binding to a predetermined epitope, where the fusion
XX protein comprises an additional domain positioned N-terminal of the BSD
XX and an amino acid sequence that mediates anchoring of the fusion protein
XX to the surface of the display system; and (b) identifying a BSD that
XX binds to the predetermined epitope. The method is useful to identify bi-
XX or multivalent polypeptides that comprise antibody binding sites capable
XX of efficiently binding to the corresponding antigen. The polypeptides or
XX antibodies identified by the method are useful therapeutically and
XX *diagnostically, for e.g. cancer and autoimmune diseases. Scrv-antibody
XX fragments that bind independently of their position within bifunctional
XX single-chain fusion proteins can be isolated from combinatorial antibody
XX libraries using the new in vitro method.
XX
XX Sequence 381 BP; 87 A; 93 C; 120 G; 81 T; 0 other:
SQ
Query Match 66.5%; Score 261.2; DB 20; Length 381;
Best Local Similarity 81.6%; Pred. No. 7.6e-68;
Matches 302; Conservative 0; Mismatches 68; Indels 0; Gaps 0;
QY 24 GGTGAGTCTGGGGAGGCGCTGGTCAAGCTGGGGGGTCCCTGAGACTCTCCTGACAGC 83
DB 12 GCTCGAGTCTGGGGAGGCGCTGGTCAAGCTGGGGGGTCCCTGAGACTCTCCTGACAGC 71
QY 84 CTCTGGATTACCTTCACTAGCTATAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG 143
DB 72 CTCGTGATTACCTTCACTAGCTATAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG 131
QY 144 GCTGAGTGGGTCTCTATCCATTAGTAATGTAATCTTACATATCTACGACAGCGCACT 203
DB 132 GCTGAGTGGGTGGGAGGAGTATATCATATGATGAGTAATTAATCTATGACAGCTCCGT 191
QY 204 GAAGGCGCGATTACCATCTCCAGAGACAGCAAGCAACTCAGTATCTGCAANTGAA 263
DB 192 GAAGGCGCGATTACCATCTCCAGAGACAAATTCGAAGACAGCTGTATCTGCAANTGAA 251
QY 264 CAGCTGAGAGCCGAGACACGCGTGTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 323
DB 252 CAGCTGAGAGCCGAGACACGCGTGTGTATCTAGTGTGGAAGATATGGGGTGGGCGAG 311
QY 324 TTTCTCCGTTGGGTTCGGAGGAGCTATGAGCTCTGGGGCCAAAGGACACGCTCAT 383
DB 312 TGGCTGGAGAGCCCTACTACTACTACGTATGAGCTCTGGGGCCAAAGGACACGCTCAC 371
QY 384 CGTCTCTCTCA 393
DB 372 CGTCTCTCTCA 381

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RESULT 17
AAV68537
ID AAV68537 standard; DNA; 414 BP.
XX
XX AAV68537;
XX

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DT 16-FEB-1999 (first entry)
XX
XX Nucleotide sequence of human D4.5 heavy chain variable region.
XX
XX Human; D4.5 heavy chain variable region; receptor; antigen;
XX tumour; auto-immune disease; graft rejection; allergy;
XX inflammatory disease; endocrine disease; degenerative disease; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 1..414
XX FT /*tag=^a
XX FT /product= "human D4.5 heavy chain variable
XX FT region"
XX
XX W09846645-A2.
XX
XX 22-OCT-1998.
XX
XX 14-APR-1998; 98WO-EP02180.
XX
XX 14-APR-1997; 97EP-0106109.
XX
XX (KUFE/) KUFE P.
XX (RAUM/) RAUM T.
XX
XX Kufer P, Raum T;
XX
XX WPI: 1998-594564/50.
XX P-PSDB; AAW80815.
XX
XX Production of anti-human antigen receptors - by selecting a
XX combination of functionally rearranged VH and VL immunoglobulin
XX chains expressed from a recombinant vector
XX
XX Claim 9; Fig 7; 84pp; English.
XX
XX This is the nucleotide sequence of the human D4.5 heavy chain
XX variable region, used in the method of the invention, for providing
XX receptors that can be used for targeting antigens in humans without
XX being immunogenic themselves. Such receptors can be used for treating
XX diseases such as tumours or auto-immune diseases, graft rejection
XX after transplantation, infectious diseases by targeting cellular
XX receptors as well as allergic, inflammatory, endocrine and
XX degenerative diseases by targeting key molecules involved in the
XX pathological process.
XX
XX Sequence 414 BP; 93 A; 106 C; 127 G; 88 T; 0 other:
SQ
Query Match 66.5%; Score 261.2; DB 19; Length 414;
Best Local Similarity 81.6%; Pred. No. 7.8e-68;
Matches 302; Conservative 0; Mismatches 68; Indels 0; Gaps 0;
QY 24 GGTGAGTCTGGGGAGGCGCTGGTCAAGCTGGGGGGTCCCTGAGACTCTCCTGACAGC 83
DB 12 GCTCGAGTCTGGGGAGGCGCTGGTCAAGCTGGGGGGTCCCTGAGACTCTCCTGACAGC 71
QY 84 CTCTGGATTACCTTCACTAGCTATAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG 143
DB 72 CTCGTGATTACCTTCACTAGCTATAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG 131
QY 144 GCTGAGTGGGTCTCTATCCATTAGTAATGTAATCTTACATATCTACGACAGCGCACT 203
DB 132 GCTGAGTGGGTGGGAGGAGTATATCATATGATGAGTAATTAATCTATGACAGCTCCGT 191
QY 204 GAAGGCGCGATTACCATCTCCAGAGACAGCAAGCAACTCAGTATCTGCAANTGAA 263
DB 192 GAAGGCGCGATTACCATCTCCAGAGACAAATTCGAAGACAGCTGTATCTGCAANTGAA 251
QY 264 CAGCTGAGAGCCGAGACACGCGTGTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 323
DB 252 CAGCTGAGAGCCGAGACACGCGTGTGTATCTAGTGTGGAAGATATGGGGTGGGCGAG 311

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OY 324 TTTCCTCGTTGGTTCGAGCGATATGACGCTGTGGGCCCAAGGACCGATCAT 383
 Db 312 TGGCTGGAGACCTACTACTACGATATGAGCTGTGGGCCCAAGGACCGATCAT 371
 OY 384 CGTCTCCTCA 393
 Db 372 CGTCTCCTCA 381
 RESULT 18
 AA220407 standard; cDNA: 519 BP.
 AA220407;
 19-NOV-1999 (first entry)
 IgG antibody 2.1.1 heavy chain coding sequence.
 Antibody; CD147; IgM; ABX-CBL; activated T-cell killing; leukaemia;
 activated B-cell; monocyte; graft versus host disease; therapy; cancer;
 organ transplant rejection disease; lymphoma; pancreatic disease;
 autoimmune disease; inflammatory disease; arthritis; binding site; ss.
 Homo sapiens.
 Key Location/Qualifiers
 CDS 1..519
 FT /tag= a
 FT /note= "no stop codon given"
 WO9945031-A2.
 10-SEP-1999.
 03-MAR-1999; 99WO-US04583.
 03-MAR-1998; 98US-0034607.
 03-FEB-1999; 99US-0244253.
 (ABGE-) AGENIX INC.
 Davis CG, Blacher RW, Corvajan JR, Culwell AR, Green LL, Hales J;
 Havrilla N, Ivanov VE, Lipant JA, Liu Q, Weber RF, Yang X;
 WPI: 1999-540816/45.
 P-PSDB; AAY34306.
 New monoclonal antibody, used for treating e.g. graft versus host
 disease, cancers, autoimmune diseases and inflammatory diseases -
 Disclosure: Fig 31; 245pp; English.
 This sequence encodes the heavy chain of an antibody of the
 invention. The antibody is a monoclonal antibody (MAb) with an isotype
 CC that fixes complement and a variable region that binds to the epitope on
 CC CD147 bound by the IgM MAb ABX-CBL, providing that the antibody is not
 CC CH1. The MAb can selectively kill activated T-cells, activated B-cells
 CC or resting or activated monocytes. The products and methods can be used
 CC for treating diseases involving activated T-cells or B-cells or
 CC monocytes e.g. graft versus host disease (GVHD), organ transplant
 CC rejection diseases (e.g. renal transplant, ocular transplant), cancers
 CC (e.g. cancers of the blood (e.g. leukaemia) and lymphomas) and
 CC pancreatic, autoimmune diseases (e.g. lupus), and inflammatory diseases
 CC (e.g. arthritis).
 SO Sequence 519 BP; 109 A; 155 C; 151 G; 104 T; 0 other;
 Query Match 66.3%; Score 260.6; DB 20; Length 519;
 Best Local Similarity 93.5%; Pred. No. 1.3e-67;
 Matches 272; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

OY 34 GGGGAGGCGCTGTGCAAGCCTGGGGGCTCCCTGAGACCTGCTGACGCTCTGGATTTC 93
 Db 1 GGGGAAGGCGCTGTGCAAGCCTGGGGGCTCCCTGAGACCTGCTGTCGACGCTGTGATTTC 60
 OY 94 ACCTTAGTAGTATGATAGCATGACATGCGGCGCCAGAGGCTCCAGGGAAGGCGTGAATG 153
 Db 61 ACCTTAGTAGTATGATAGCATGACATGCGGCGCCAGAGGCTCCAGGGAAGGCGTGAATG 120
 OY 154 GTCTCATCCATTTGTATTAAGTAATAGTACTATATATAGCAGACAGGAGTGAAGGCCGA 213
 Db 121 GTCTCATCCATTTGTATTAAGTAATAGTACTATATATAGCAGACAGGAGTGAAGGCCGA 180
 OY 214 TTTCAGCATCTCCGACAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 273
 Db 181 TTTCAGCATCTCCGACAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 240
 OY 274 GCCGAGCAGCAGCGCTGTGACTGCTGTGGAGAGATTAGATAGATAT 324
 Db 241 GCCGAGCAGCAGCGCTGTGACTGCTGTGGAGAGATTAGATAGATAT 291
 RESULT 19
 AA250587 standard; DNA: 1630 BP.
 AA250587;
 23-MAY-2000 (first entry)
 HD70scFv-CH1-GM-CSF chain encoding DNA.
 HD70: single-chain variable fragment; scFv; 17-1A antigen; human;
 EPCAM; epithelial cell adhesion molecule; inflammatory cytokine; GM-CSF;
 granulocyte/macrophage colony stimulating factor; heteromultibody;
 CH1 domain; multifunctional compound; heavy chain constant domain;
 immunoglobulin; cytoskeletal; immunostimulatory; anti-leukaemia; diagnosis;
 antiproliferative; prevention; treatment; malignant; haematopoietic cell;
 lymphoma; leukaemia; solid tumour; carcinoma; melanoma; sarcoma; ds.
 Homo sapiens.
 Key Location/Qualifiers
 CDS 39..1610
 FT /tag= a
 FT /product= "HD70scFv-CH1-GM-CSF chain"
 FT 96..842
 FT /tag= b
 FT /label= HD70_scFv
 WO200006605-A2.
 10-FEB-2000.
 28-JUL-1999; 99WO-EP05416.
 28-JUL-1998; 98EP-0114082.
 (MICR-) MICROMET GES BIOMEDIZINISCHE FORSCHUNG.
 Kuter P, Dreier T, Baeuerle PA, Borscheit K, Zettl F;
 WPI: 2000-195265/17.
 P-PSDB; AAY44994.
 New multifunctional compounds useful for preventing and/or treating
 PT malignant cell growth and for detection and diagnosis
 PS Claim 8; Fig 55A; 166pp; English.
 The patent discloses heteromultibodies which are multifunctional compounds
 CC producible in a mammalian host cell as a secretable and fully functional
 CC heterodimer of two polypeptide chains, where one of the polypeptide
 CC chains comprises, a CH1 domain (constant domain of an immunoglobulin

CC heavy chain) and the other chain comprises C1-domain (constant domain of an immunoglobulin light chain). The polypeptide chains further comprise, fused to the constant domains at least two (poly)peptides having different receptor or ligand functions, where further at least two of the different (poly)peptides lack an intrinsic affinity for one another and are linked via the constant domains. The heteromimibodies have cytosolic, immunostimulatory, antileukaemia and antiproliferative activities. These compounds can be used for diagnosing, preventing and treating malignant cell growth related to malignancies of haematopoietic cells e.g. lymphomas and leukaemias, or to solid tumours e.g. carcinomas, melanomas and sarcomas.

CC The present sequence is a DNA encoding left chain of a heteromimibody comprising HD70 single-chain Fv (scFv) fragment N-terminally linked to human CH1 domain which bears at its C-terminus the human inflammatory cytokine granulocyte/macrophage colony stimulating factor (GM-CSF), plus a hexahistidine sequence for ease of purification. HD70 scFv specifically recognises the human epithelial cell adhesion molecule (EPCAM) also called 17-1A antigen.

XX Sequence 1630 BP; 376 A; 484 C; 437 G; 333 T; 0 other;

Query Match 66.2%; Score 260.2; DB 21; Length 1630;
Best Local Similarity 81.6%; Pred. No. 2.4e-67;
Matches 301; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGGAGGCGCTGTAAGCCTGGGGGTCCTGAGACTCTCTGTCACG 83
DB 473 GCTCGAGTCTGGGGGAGGCGCTGTCACGCTGGAGGTCCCGAGACTCTCTGTCACG 532
QY 84 CTCGTGATTACCTTCAGTAGTATGATGATGATGATGATGATGATGATGATGATGAT 143
DB 533 CTCCTGGATTACCTTCAGTAGTATGATGATGATGATGATGATGATGATGATGATGAT 592
QY 144 GCTGAGTGGGCTCATCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 203
DB 593 GCTGAGTGGGCTCATCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 652
QY 204 GAAGGGCGGATTCACCATCTCCAGAGACAAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 263
DB 653 GAAGGGCGGATTCACCATCTCCAGAGACAAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 712
QY 264 CAGCGTGAAGCCGAGACAGCAGCGCTGATCTGTCGAGAGATTCATGATGATGATGAT 323
DB 713 CAGCGTGAAGCCGAGACAGCAGCGCTGATCTGTCGAGAGATTCATGATGATGATGAT 772
QY 324 TTTCCTCCGTTGGGTTCCGAGAGCGATGATGATGATGATGATGATGATGATGATGAT 383
DB 773 TGGCTGGAGACCTTACTACTACTACTACTACTACTACTACTACTACTACTACTACTACT 832
QY 384 CGTCTCCCTC 392
DB 833 CGTCTCCCTC 841

RESULT 20
AAZ50588
ID AAZ50588 standard; DNA; 1630 BP.

XX AAZ50588;

XX 23-MAY-2000 (first entry)

XX HD70scFv-CK-Interleukin 2 encoding DNA.

XX HD70: single-chain variable fragment; scFv; 17-1A antigen; human;
XX EPCAM; epithelial cell adhesion molecule; inflammatory cytokine;
XX IL-2; interleukin-2; Ck-domain; kappa light chain constant domain;
XX heteromimibody; multifunctional compound; immunoglobulin;
XX cytosolic; immunostimulatory; antileukaemia; diagnosis; prevention;
XX antiproliferative; treatment; malignancy; haematopoietic cell; lymphoma;
XX leukaemia; solid tumour; carcinoma; melanoma; sarcoma; ds.

OS Homo sapiens.

XX Key Location/Qualifiers
FH CDS 39..1613
FT /*tag= a
FT /product= "HD70scFv-CK-IL-2 chain"
FT misc-feature 96..842
FT /*tag= b
FT /label= HD70_scFv
XX
XX WO200006605-A2.
XX
XX 10-FEB-2000.
XX
XX 28-JUL-1999; 99WO-EP05416.
XX
XX 28-JUL-1998; 98EP-0114082.
XX
XX (MCR-) MICROMET GES BIOMEDIZINISCHE FORSCHUNG.
XX
XX Kufer P, Dreier T, Baerle PA, Borschert K, Zettl F;
XX
XX MPI: 2000-195265/17.
XX P-PSDB; AAY44995.
XX
XX New multifunctional compounds useful for preventing and/or treating
XX malignant cell growth and for detection and diagnosis
XX
XX Claim 8; Fig 55B; 166pp; English.
XX
XX The patent discloses heteromimibodies which are multifunctional compounds
XX producible in a mammalian host cell as a secretable and fully functional
XX heterodimer of two polypeptide chains, where one of the polypeptide
XX chains comprises, a CH1-domain (constant domain of an immunoglobulin
XX heavy chain) and the other chain comprises C1-domain (constant domain of
XX an immunoglobulin light chain). The polypeptide chains further comprise,
XX fused to the constant domains at least two (poly)peptides having
XX different receptor or ligand functions, where further at least two of the
XX different (poly)peptides lack an intrinsic affinity for one another and
XX are linked via the constant domains. The heteromimibodies have
XX cytosolic, immunostimulatory, antileukaemia and antiproliferative
XX activities. These compounds can be used for diagnosing, preventing and
XX treating malignant cell growth related to malignancies of haematopoietic
XX cells e.g. lymphomas and leukaemias, or to solid tumours e.g. carcinomas,
XX melanomas and sarcomas.
XX The present sequence is a DNA encoding right chain of a heteromimibody
XX comprising HD70 single-chain Fv (scFv) fragment N-terminally linked to
XX human Ck domain (constant domain of immunoglobulin-kappa light chain)
XX which bears at its C-terminus the human inflammatory cytokine
XX interleukin-2 (IL-2). HD70 scFv specifically recognises the human
XX epithelial cell adhesion molecule (EPCAM) also called 17-1A antigen.
XX
XX Sequence 1630 BP; 445 A; 410 C; 408 G; 367 T; 0 other;

Query Match 66.2%; Score 260.2; DB 21; Length 1630;
Best Local Similarity 81.6%; Pred. No. 2.4e-67;
Matches 301; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGGAGGCGCTGTAAGCCTGGGGGTCCTGAGACTCTCTGTCACG 83
DB 473 GCTCGAGTCTGGGGGAGGCGCTGTCACGCTGGAGGTCCCGAGACTCTCTGTCACG 532
QY 84 CTCGTGATTACCTTCAGTAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 143
DB 533 CTCCTGGATTACCTTCAGTAGTATGATGATGATGATGATGATGATGATGATGATGAT 592
QY 144 GCTGAGTGGGCTCATCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 203
DB 593 CTCCTGGATTACCTTCAGTAGTATGATGATGATGATGATGATGATGATGATGATGAT 652
QY 204 GAAGGGCGGATTCACCATCTCCAGAGACAAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 263
DB 653 GAAGGGCGGATTCACCATCTCCAGAGACAAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 712

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Db      713 CAGCCTGAGAGCTGAGAGACGCGTGTGTATTACTGTGCGAAGATATGGGGGCGAG 772
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OY      324 TTTCCTCCGTTGGGTTGCGAGCGACGTATGGAGCGTCTGGGCCAAGGAGCCACGGTCAT 383
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Db      773 TGGCTGGAGAGCCCTACTACTACTACGTATGAGCGTCTGGGCCAAGGAGCCACGGTCAC 832
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OY      384 CGTCTCCTC 392
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Db      833 CGTCTCCTC 841
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Search completed: September 24, 2003, 03:27:35
job time : 271 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 24, 2003, 02:42:43 ; Search time 2280 Seconds
(without alignments)
4189.324 Million cell updates/sec

Title: US-09-848-798A-97
Perfect score: 393
Sequence: 1 gaggtgcagctgcagtc.....ccacgctcatcgtctctca 393

Scoring table: IDENTITY-NUC
Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 60 summaries

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2: em_esthum:*
3: em_estin:*
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5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vit:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rtd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
1	302.8	77.0	740	10	BG757947 602114983
2	302.8	77.0	741	10	BG754024 602709552
3	283.6	72.2	875	13	BQ706723 AGENCOURT
4	283.6	72.2	968	13	BQ706746 AGENCOURT

5	282	71.8	889	13	BX357384
6	281.8	71.7	1004	13	BQ711355
7	277.8	70.7	1010	13	BQ711025
8	273.2	69.5	687	10	BG397964
9	270	68.7	1069	12	BM914329
10	268.2	68.2	471	9	AW403220
11	268.2	68.2	908	10	BG686881
12	267.4	68.0	397	9	AW403886
13	266.8	67.9	1138	13	BX379829
14	266.8	67.9	1201	13	BX417408
15	264	67.2	447	9	AW402793
16	263.2	67.0	738	10	BG340686
17	258.4	65.8	613	12	BM007475
18	258.4	65.8	879	10	BG759748
19	257.4	65.5	890	13	BQ709879
20	256.8	65.3	443	9	AW401428
21	256.6	65.3	804	10	BG754761
22	255.6	65.0	1194	13	BX359679
23	255.2	64.9	911	13	BQ712666
24	255.2	64.9	916	13	BQ708408
25	255	64.9	988	13	BQ713092
26	254	64.6	445	9	AW408316
27	254	64.6	876	10	BG758406
28	253.6	64.5	618	12	BM713479
29	252	64.1	326	10	BE156045
30	251.2	63.9	530	12	BM819424
31	250.8	63.8	669	10	BG686716
32	250.6	63.8	471	12	BM848820
33	250.6	63.8	556	12	BM820006
34	250.6	63.8	567	12	BM820534
35	250.6	63.8	640	12	BM819504
36	250.6	63.8	686	12	BM849368
37	250.6	63.7	801	13	BX399298
38	250.4	63.7	792	10	BE129047
39	250	63.6	823	10	BG547512
40	249.6	63.5	1164	10	BE974771
41	249	63.4	932	13	BQ711605
42	248.4	63.2	390	9	AW408285
43	248.2	63.2	440	9	AW408304
44	248	63.1	406	9	AW401971
45	247.4	63.0	705	10	BG758682
46	247.2	62.9	942	13	BQ710859
47	247.2	62.9	957	13	BO894558
48	246.6	62.7	979	13	BQ708029
49	246.4	62.7	378	9	AA740786
50	246.4	62.7	859	13	BX368110
51	246.2	62.6	860	13	BQ705956
52	246	62.6	456	9	AW403059
53	245.4	62.4	902	12	BM007556
54	245	62.3	481	14	CA397706
55	244.8	62.3	894	13	BQ708235
56	244.6	62.2	436	12	BM820963
57	244.4	62.2	516	9	AW401728
58	244.4	62.2	973	10	BG397895
59	244.4	62.2	984	13	BQ709776
60	244	62.1	964	13	BQ708077

ALIGNMENTS

RESULT 1	BG757947	740 bp	mRNA	linear	EST 15-MAY-2001
LOCUS	602714983F1 NIH_MGC_48		Homo sapiens	cDNA clone IMAGE:4854932 5'	
DEFINITION	BG757947		mRNA sequence.		
ACCESSION	BG757947				
VERSION	BG757947.1		GI:14068600		
KEYWORDS	EST.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
	Eutheria; Primates; Catarrhini; Homidae; Homo.				

REFERENCE 1 (bases 1 to 740)
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL
COMMENT

Email: cgapbs-remail.nih.gov
Contact: Robert Strausberg, Ph.D.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: LNCM1703 row: f column: 21
High quality sequence stop: 736.
Location/Qualifiers

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source

1. 740
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4854932"
/tissue_type="Primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH-MGC-48"
/note="Organ: B-cells; Vector: pORF7; Site:1: XhoI; Site:2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH-MGC library."

BASE COUNT 166 a 203 c 206 g 165 t

Query Match 77.0%; Score 302.8; DB 10; Length 740;
Best Local Similarity 88.6%; Pred. No. 9,4e-73;

Matches 328; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 83
DB 92 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 151
OY 84 CTCGTGATTCACCTTCAGTACTATAGCATGCTGGTCCGCGAGGGTCCAGGAGGG 143
DB 152 CTCGTGATTCACCTTCAGTACTATAGCATGCTGGTCCGCGAGGGTCCAGGAGGG 211
OY 144 GCTGAGTGGGTCTCATTCATTAATAGTAATAGTACTTACATATACAGCAGCAGT 203
DB 212 GCTGAGTGGGTCTCATTCATTAATAGTAATAGTACTTACATATACAGCAGCAGT 271
OY 204 GAAGGGCCGATTCACCATCTCCAGAGACAAAGCAAGTACATGATTCAGCAATGAA 263
DB 272 GAAGGGCCGATTCACCATCTCCAGAGACAAAGTACATGATTCAGCAATGAA 331
OY 264 CAGCCTGAGAGCCGAGAGACAGGCGTGTACTAGTGTGGAGAGATTTAGTAAATGAA 323
DB 332 CAGCCTGAGAGCCGAGAGACAGGCGTGTACTAGTGTGGAGAGATTTAGTAAATGAA 391
OY 324 TTTCCTCGTTGGTGGTTCGAGAGCGATAGAGAGTGGGGCCCAAGGAGCAGCGTAT 383
DB 392 TAGTACCAAGCTGCTACTACTACTAGCGTATAGCGTGTGGGCCAAGGAGCAGCGTAC 451
OY 384 CGTCTCCTCA 393
DB 452 CGTCTCCTCA 461

RESULT 2
BG754024 741 bp mRNA linear EST 15-MAY-2001
LOCUS BG754024
DEFINITION 602709552P1 NIH-MGC-48 Homo sapiens CDNA clone IMAGE:4846117 5',

ACCESSION mRNA sequence.
VERSION BG754024
KEYWORDS BG754024.1 GI:14064677
SOURCE EST.
ORGANISM Homo sapiens (human)

REFERENCE 1 (bases 1 to 741)
AUTHORS NIH-MGC <http://mgc.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL
COMMENT

Email: cgapbs-remail.nih.gov
Contact: Robert Strausberg, Ph.D.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
<http://image.llnl.gov>
Plate: LNCM1686 row: g column: 14
High quality sequence stop: 735.
Location/Qualifiers

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source

1. 741
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4846117"
/tissue_type="Primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH-MGC-48"
/note="Organ: B-cells; Vector: pORF7; Site:1: XhoI; Site:2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH-MGC library."

BASE COUNT 166 a 204 c 206 g 165 t

Query Match 77.0%; Score 302.8; DB 10; Length 741;
Best Local Similarity 88.6%; Pred. No. 9,4e-73;

Matches 328; Conservative 0; Mismatches 42; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 83
DB 92 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 151
OY 84 CTCGTGATTCACCTTCAGTACTATAGCATGCTGGTCCGCGAGGGTCCAGGAGGG 143
DB 152 CTCGTGATTCACCTTCAGTACTATAGCATGCTGGTCCGCGAGGGTCCAGGAGGG 211
OY 144 GCTGAGTGGGTCTCATTCATTAATAGTAATAGTACTTACATATACAGCAGCAGT 203
DB 212 GCTGAGTGGGTCTCATTCATTAATAGTAATAGTACTTACATATACAGCAGCAGT 271
OY 204 GAAGGGCCGATTCACCATCTCCAGAGACAAAGCAAGTACATGATTCAGCAATGAA 263
DB 272 GAAGGGCCGATTCACCATCTCCAGAGACAAAGTACATGATTCAGCAATGAA 331
OY 264 CAGCCTGAGAGCCGAGAGACAGGCGTGTACTAGTGTGGAGAGATTTAGTAAATGAA 323
DB 332 CAGCCTGAGAGCCGAGAGACAGGCGTGTACTAGTGTGGAGAGATTTAGTAAATGAA 391
OY 324 TTTCCTCGTTGGTGGTTCGAGAGCGATAGAGAGTGGGGCCCAAGGAGCAGCGTAT 383
DB 392 TAGTACCAAGCTGCTACTACTACTAGCGTATAGCGTGTGGGCCAAGGAGCAGCGTAC 451
OY 384 CGTCTCCTCA 393


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Db      315 GAGGGCCGATTCACCATCTCCAGACACGCAAGCACTGATTTGCCAATGAA 374
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Qy      264 CAGCCTGAGACCCGAGACAGCGCTGTACTAGTGTGGAGAGATTCTAGATACGTA 323
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Db      375 CAGCCTGAGACCCGAGACAGCGCTGTACTAGTGTGGAGAGATTCTAGATACGTA 434
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Qy      324 TTTCCTCCGTTGGGTTCCGAGCAGCGTATGAGACGTGTGGGCCAAGGACCACGTCAT 383
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Db      435 CGATATTTTGGACTGTGTCTAAGAAACTGACTGTGGGCCAAGGAAACCTGTGTAC 494
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Qy      384 CGTCTCCCTCA 393
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Db      495 CGTCTCCCTCA 504
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RESULT 5
BX357384 889 bp mRNA linear EST 05-MAY-2003
LOCUS    BX357384 Homo sapiens PLACENTA.COT.25-NORMALIZED Homo sapiens cDNA
DEFINITION
BX357384.1 GI:30366120
ACCESSION
BX357384
VERSION
BX357384.1
KEYWORDS
EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 889)
AUTHORS  Li,W.B., Gruber,C., Jesse,J. and Polayes,D.
TITLE     Full-length cDNA libraries and normalization
JOURNAL   Unpublished
COMMENT   Contact: Genoscope
          Genoscope - Centre National de Sequencage
          BP 191 91006 Evry cedex - France
          Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
          Library was constructed by Life Technologies, a division of
          Invitrogen. This sequence belongs to sequence cluster 7198.r For
          more information about this cluster, see
          http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CSODI025C050P1c1cluster=7198.r. Contact :
          Feng Liang Email : fliang@lifetech.com URL :
          http://fulllength.invitrogen.com/Invitrogen Corporation 1600
          Faraday Avenue Genoscope sequence ID : CSODI025C050P1.
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sites of the pCMVSPORT 6 vector. Library was normalized."
BASE COUNT
200 a 252 c 251 g 184 t

Query Match 71.8%; Score 282; DB 13; Length 889;
Best Local Similarity 87.3%; Pred. No. 5,7e-67;
Matches 323; Conservative 0; Mismatches 40; Indels 7; Gaps 1;

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Db      359 GAAGGCCGATTTCAACATCTCCAGAGACAGCCAGAACTCACTGATCTGCAATGAA 418
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Qy      264 CAGCCTGAGACCCGAGACAGCGCTGTACTAGTGTCCAGAGATTCTAGATACGTA 323
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Qy      324 TTTCCTCCGTTGGGTTCCGAGCAGCGTATGAGACGTGTGGGCCAAGGACCACGTCAT 383
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Db      472 TTGGCGCAGAGTGTGTACACCTCGACGATGTGACGTGTGGGCCAAGGACCACGTCAC 531
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Qy      384 CGTCTCCCTCA 393
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Db      532 CGTCTCCCTCA 541
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RESULT 6
B0711355 1004 bp mRNA linear EST 16-JUL-2002
LOCUS    B0711355
DEFINITION
AGENCOURT.8353131 NIH_MGC_113 Homo sapiens cDNA clone IMAGE:6278123
5', mRNA sequence.
B0711355
B0711355.1 GI:21850254
ACCESSION
B0711355
VERSION
B0711355.1
KEYWORDS
EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 1004)
AUTHORS  NIH-MGC http://mgc.nci.nih.gov/
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished
COMMENT   Contact: Robert Strausberg, Ph.D.
          Email: cgapbs@mail.nih.gov
          Tissue Procurement: Dr. Mark Watson
          cDNA Library Preparation: Rubin Laboratory
          DNA Sequencing by: Agencourt Bioscience Corporation
          Clone distribution: MGC clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          http://image.llnl.gov
          Plate: LICM2465 row: 3 column: 12
          High quality sequence stop: 486.
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  /clone_lib="NIH_MGC_113"
  /note="Organ: spleen; Vector: pOTB7; Site:1: XhoI; Site:2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(s). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a
NIH-MGC Library."
BASE COUNT
217 a 299 c 279 g 209 t

Query Match 71.7%; Score 281.8; DB 13; Length 1004;
Best Local Similarity 86.6%; Pred. No. 6,9e-67;
Matches 323; Conservative 0; Mismatches 47; Indels 3; Gaps 1;

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OY 84 CTGTGATTCACCTTCAGTACGTATAGCATGCACGTGGTCCGCCAGGGTCCAGGAGAGG 143
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 OY 144 GCTGAGTGGGTCTCATCTTACATTAATAGTAACTTACATATCTACGACGACGCACT 203
 DB 250 GCTGAGTGGGTCTCATCTTACATTAATAGTAACTTACATATCTACGACGACGCACT 309
 OY 204 GAAGGGCCGATTCACATCTCCAGAGACAGCCCAAGAACCTCATGTATCTGCAATGAA 263
 DB 310 GAAGGGCCGATTCACATCTCCAGAGACAGCCCAAGAACCTCATGTATCTGCAATGAA 369
 OY 264 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTGCGAGAGATTCTAGATACAG-- 320
 DB 370 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTGCGAGAGATTCTAGATACAG-- 429
 OY 321 TAATTTCTCCGTTGGTTCGAGAGCGACGATAGTACGCTCTGGGCCAAGGAGCACGCT 380
 DB 430 ACTATGTTTCGGGGGCGACAATATATGATGATCTGGGGCCAAAGGAGCAATGCT 489
 OY 381 CATGCTTCCTCA 393
 DB 490 CACGCTCTCTCA 502

RESULT 7
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 DEFINITION AGENCOURT_7983315 NIH_MGC_113 Homo sapiens cDNA clone IMAGE:6215468
 5', mRNA sequence.
 ACCESSION B0711025
 VERSION B0711025.1 GI:21849924
 KEYWORDS EST.

SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1010)
 AUTHORS Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 TITLE NIH-MGC http://mgi.nci.nih.gov/
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
 COMMENT Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-remail.nih.gov
 Tissue Procurement: Dr. Mark Watson
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LCM2384 row: g column: 21
 High quality sequence stop: 358.

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 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_113"
 /note="Organ: spleen; Vector: pOT87; Site_1: XhoI; Site_2:
 EcoRI; cDNA made by oligo-dT priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCACGAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC Library."

BASE COUNT 202 a 301 c 272 g 235 t
 ORIGIN

Query Match 70.7%; Score 277.8; DB 13; Length 1010;
 Best Local Similarity 84.6%; Pred. No. 8.7e-66;

Matches 312; Conservative 0; Mismatches 57; Indels 0; Gaps 0;
 OY 24 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGTCCGAGACTCTCTGTCACG 83
 DB 135 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGTCCGAGACTCTCTGTCACG 194
 OY 84 CTGTGATTCACCTTCAGTACGTATAGCATGCACGTGGTCCGCCAGGGTCCAGGAGAGG 143
 DB 190 CTTCTGATTCACCTTCAGTACGTATAGCATGCACGTGGTCCGCCAGGGTCCAGGAGAGG 254
 OY 144 GCTGAGTGGGTCTCATCTTACATTAATAGTAACTTACATATCTACGACGACGCACT 203
 DB 250 GCTGAGTGGGTCTCATCTTACATTAATAGTAACTTACATATCTACGACGACGCACT 314
 OY 204 GAAGGGCCGATTCACATCTCCAGAGACAGCCCAAGAACCTCATGTATCTGCAATGAA 263
 DB 310 GAAGGGCCGATTCACATCTCCAGAGACAGCCCAAGAACCTCATGTATCTGCAATGAA 374
 OY 264 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 323
 DB 375 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 434
 OY 324 TTTCTCCGTTGGTTCGAGAGCGACGATAGTACGCTCTGGGCCAAGGAGCACGCTCA 383
 DB 435 CCATATTTTGAAGTATTTGTCTAAAGAACTGACTACTGGGGCCAGGAGACCTGCTCA 494
 OY 384 CAGCTTCCTC 392
 DB 495 CAGCTTCCTC 503

RESULT 8
 LOCUS BG397964 687 bp mRNA linear EST 12-MAR-2001
 DEFINITION 602439484P1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4565804 5',
 mRNA sequence.
 ACCESSION BG397964
 VERSION BG397964.1 GI:13291412
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 687)
 AUTHORS Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 TITLE NIH-MGC http://mgi.nci.nih.gov/
 JOURNAL National Institutes of Health, Mammalian Gene Collection (MGC)
 COMMENT Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cga@bbs-remail.nih.gov
 Tissue Procurement: Louis M. Straub, M.D., Ph.D.
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: LCM1283 row: g column: 21
 High quality sequence stop: 673.

FEATURES
 source
 Location/Qualifiers
 1..687
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4565804"
 /tissue_type="Primary B-cells from tonsils (cell line)"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH_MGC_48"
 /note="Organ: B-cells; Vector: pOT87; Site_1: XhoI;
 Site_2: EcoRI; cDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of

California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC library."

BASE COUNT
ORIGIN

147 a 189 c 197 g 154 t

Query Match 69.5%; Score 273.2; DB 10; Length 687;
Best Local Similarity 97.2%; Pred. No. 1,3e-64;
Matches 278; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCAGAGCTGGGGGCTCCGAGACTCTCTGTGCACG 83
DB 116 GTTGAGTCTGGGGAGGCGCTGTCAGAGCTGGGGGCTCCGAGACTCTCTGTGCACG 175
OY 84 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCGCCAGAGGTCACAGGAAGG 143
DB 176 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCGCCAGAGGTCACAGGAAGG 235
OY 144 GCTGAGTGGGTCTCATTCATTAGTAATAGTAATCTTACATATCTACGACGACGACT 203
DB 236 GCTGAGTGGGTCTCATTCATTAGTAATAGTAATCTTACATATCTACGACGACGACT 295
OY 204 GAAGGCGCATTCACCATCTCCAGAGACACGCCAAGACATCAGTATCTGCAATGAA 263
DB 296 GAAGGCGCATTCACCATCTCCAGAGACACGCCAAGACATCAGTATCTGCAATGAA 355
OY 264 CAGCCTGAGAGCCGAGACACGCGTGTACTACTGTGGAGAGAT 309
DB 356 CAGCCTGAGAGCCGAGACACGCGTGTACTACTGTGGAGAGAT 401

RESULT 9
LOCUS BM914329 1069 bp mRNA linear EST 12-MAR-2002
DEFINITION AGENCOURT 6615320 NIH_MGC_113 Homo sapiens CDNA clone IMAGE:5479996
5', mRNA sequence.
ACCESSION BM914329
VERSION BM914329.1 GI:19364708
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 1069)
AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Tissue Procurement: Dr. Mark Watson
CDNA Library Preparation: Rubin Laboratory
DNA Sequencing by: The I.M.A.G.E. Consortium (LNLN)
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
<http://image.llnl.gov>
plate: LNCM2002 row: c column: 05
High quality sequence stop: 556.

FEATURES

source

1. 1069
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5479996"
/lab_host="DH10B (phage-resistant)"
/note="Organ: spleen; Vector: pOTB; Site_1: XhoI; Site_2:
EcoRI; CDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
Superscript II RT (Life Technologies). Note: this is a

NIH-MGC Library."
BASE COUNT 268 a 362 c 262 g 176 t 1: others
ORIGIN

Query Match 68.7%; Score 270; DB 12; Length 1069;
Best Local Similarity 96.5%; Pred. No. 1,3e-63;
Matches 276; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCAGAGCTGGGGGCTCCGAGACTCTCTGTGCACG 83
DB 126 GGTGAGTCTGGGGAGGCGCTGTCAGAGCTGGGGGCTCCGAGACTCTCTGTGCACG 185
OY 84 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCGCCAGAGGTCACAGGAAGG 143
DB 186 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCGCCAGAGGTCACAGGAAGG 245
OY 144 GCTGAGTGGGTCTCATTCATTAGTAATAGTAATCTTACATATCTACGACGACGACT 203
DB 246 GCTGAGTGGGTCTCATTCATTAGTAATAGTAATCTTACATATCTACGACGACGACT 305
OY 204 GAAGGCGCATTCACCATCTCCAGAGACACGCCAAGACATCAGTATCTGCAATGAA 263
DB 306 GAAGGCGCATTCACCATCTCCAGAGACACGCCAAGACATCAGTATCTGCAATGAA 365
OY 264 CAGCCTGAGAGCCGAGACACGCGTGTACTACTGTGGAGAGAT 309
DB 366 CAGCCTGAGAGCCGAGACACGCGTGTACTACTGTGGAGAGAT 411

RESULT 10
LOCUS AW403220 471 bp mRNA linear EST 16-FEB-2000
DEFINITION UT-HF-BK0-aay-h-04-0-UT.r1 NIH_MGC_36 Homo sapiens CDNA clone
IMAGE:3055710 5', mRNA sequence.
ACCESSION AW403220
VERSION AW403220.1 GI:6922096
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 471)
AUTHORS NIH-MGC <http://mgi.nci.nih.gov/>.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgabbs-remail.nih.gov
Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: M.B. Soares lab
DNA Sequencing by: M.B. Soares lab
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNLN at:
www-bio.llnl.gov/bdrip/image.html
Seq primer: M13 Forward.

FEATURES

source

1. 471
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3055710"
/tissue_type="lymph"
/cell_type="germinal center B cells"
/lab_host="DH10B (LTI)"
/clone_lib="NIH_MGC_36"
/note="Vector: p7715-Pec; Site_1: NotI; Site_2: Eco RI;
Constructed from size fractionated cytoplasmic mRNA
(0.5-1.5kb). Directionally cloned. Cells provided by Louis
M. Staudt, Ph.D. Library preparation by Maria de Fatima
Bonaldo, Ph.D. and M. Bento Soares, Ph.D."

BASE COUNT 98 a 127 c 143 g 103 t

ORIGIN

Query Match 68.2%; Score 268.2; DB 9; Length 471;
 Best Local Similarity 93.9%; Pred. No. 2.5e-63;
 Matches 279; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGCAGC 83
 |||||||
 DB 87 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGCAGC 146
 |||||||

QY 84 CTCGTGATTCACCTTCACTAGCTATAGCATCATGCTGGTCCGCGCAGGGTCCAGGAAAGG 143
 |||||||
 DB 147 CTCGTGATTCACCTTCACTAGCTATAGCATCATGCTGGTCCGCGCAGGGTCCAGGAAAGG 206
 |||||||

QY 144 GCTGAGTGGGTCTCATCTCATCTAGTAATAGTAATACATATACATACAGAGAGCGCAGT 203
 |||||||
 DB 207 GCTGAGTGGGTCTCATCTCATCTAGTAATAGTAATAGTGTTCATATACATACAGAGCTCAGT 266
 |||||||

QY 204 GAAGGGCCGATTTCACATCTCCAGAGACAGCCAGAACTCAGTATCTGCAATGAA 263
 |||||||
 DB 267 GAAGGGCCGATTTCACATCTCCAGAGACAGCCAGAACTCAGTATCTGCAATGAA 326
 |||||||

QY 264 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTCCGAGAGATTCTAGATACAG 320
 |||||||
 DB 327 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTCCGAGAGATTCTAGATACAG 383
 |||||||

RESULT 11
 BG686881 908 bp mRNA linear EST 01-MAY-2001
 LOCUS BG686881
 DEFINITION 602650867F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4763153 5',
 mRNA sequence.
 ACCESSION BG686881
 VERSION BG686881.1 GI:13918278
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 1 (bases 1 to 908)
 NIH-MGC http://mgi.nci.nih.gov/.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaabs-remail.nih.gov
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.lnl.gov
 Plate: LNCMI618 row: f column: 18
 High quality sequence stop: 899.
 Location/Qualifiers
 1..908
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4763153"
 /tissue_type="Primary B-cells from tonsils (cell line)"
 /lab_host="DH10B (phage-resistant)"
 /clone_lib="NIH-MGC_48"
 /note="Organ: B-cells; Vector: pORF7; Site_1: XhoI;
 Site_2: EcoRI; cDNA made by oligo-dT priming.
 Directionally cloned into EcoRI/XhoI sites using the
 following 5' adaptor: GGCACGAG(G). Size-selected >500bp
 for average insert size 1.8kb. Library constructed by Ling
 Hong in the laboratory of Gerald M. Rubin (University of
 California, Berkeley) using ZAP-cDNA synthesis kit
 (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC library."
 BASE COUNT 200 a 262 c 250 g 194 t 2 others

ORIGIN

Query Match 68.2%; Score 268.2; DB 10; Length 908;
 Best Local Similarity 96.8%; Pred. No. 3.7e-63;
 Matches 273; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGCAGC 83
 |||||||
 DB 139 GGTGAGTCTGGGGAGGCGCTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGCAGC 198
 |||||||

QY 84 CTCGTGATTCACCTTCACTAGCTATAGCATCATGCTGGTCCGCGCAGGGTCCAGGAAAGG 143
 |||||||
 DB 199 CTCGTGATTCACCTTCACTAGCTATAGCATCATGCTGGTCCGCGCAGGGTCCAGGAAAGG 258
 |||||||

QY 144 GCTGAGTGGGTCTCATCTCATCTAGTAATAGTAATACATATACATACAGAGAGCGCAGT 203
 |||||||
 DB 259 GCTGAGTGGGTCTCATCTCATCTAGTAATAGTAATAGTGTTCATATACATACAGAGCTCAGT 318
 |||||||

QY 204 GAAGGGCCGATTTCACATCTCCAGAGACAGCCAGAACTCAGTATCTGCAATGAA 263
 |||||||
 DB 319 GAAGGGCCGATTTCACATCTCCAGAGACAGCCAGAACTCAGTATCTGCAATGAA 378
 |||||||

QY 264 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTCCGAG 305
 |||||||
 DB 379 CAGCTGAGAGCCGACAGCAGCGCTGTACTACTGTCCGAG 420
 |||||||

RESULT 12
 AM403886 397 bp mRNA linear EST 16-FEB-2000
 LOCUS AM403886
 DEFINITION UI-HF-BK0-abo-d-09-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone
 IMAGE:3057064 5', mRNA sequence.
 ACCESSION AM403886
 VERSION AM403886.1 GI:6923039
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 1 (bases 1 to 397)
 NIH-MGC http://mgi.nci.nih.gov/.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaabs-remail.nih.gov
 Eco RI site shown at the beginning of the sequence.
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
 cDNA Library Preparation: M.B. Soares Lab
 cDNA Library Arrayed by: M.B. Soares Lab
 DNA Sequencing by: M.B. Soares Lab
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 www.bio.lnl.gov/db/ftp/image/image.html
 Seq primer: M13 Forward.
 Location/Qualifiers
 1..397
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:3057064"
 /tissue_type="lymph"
 /cell_type="germinal center B cells"
 /clone_lib="MGC85"
 /lab_host="DH10B (LTI)"
 /clone_lib="NIH-MGC_36"
 /note="Vector: pRT3-Pac; Site_1: NotI; Site_2: Eco RI;
 Constructed from size fractionated cytoplasmic mRNA
 (0.5-1.5kb). Directionally cloned. Cells provided by Louis
 M. Staudt, Ph.D. library preparation by Maria de Fatima
 Bonaldo, Ph.D. and M. Bento Soares, Ph.D."
 BASE COUNT 87 a 92 c 120 g 98 t

Query Match 68.0%; Score 267.4; DB 9; Length 397;
 Best Local Similarity 93.0%; Pred. No. 3.9e-63;
 Matches 280; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGAGCCCTGGTCAAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 83
 DB 88 GGTGAGTCTGGGGAGAGCCCTGGTCAAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 147
 OY 84 CTCTGATTCACCTTCAGTAGTATAGACATGACATGCTGGCCGCAAGGATCCAGGAAAGG 143
 DB 148 CTCTGATTCACCTTCAGTAGTATAGACATGCTGGCCGCAAGGATCCAGGAAAGG 207
 OY 144 GCTGAGTGGTCTCATCTCATCTAGTAAATAGTAACTTACATATCTACGACGACGAGT 203
 DB 208 GCTGAGTGGTCTCATCTCATCTAGTAAATAGTAACTTACATATCTACGACGACGAGT 267
 OY 204 GAAGGCGGATTCACATCTCCAGAGACAGCCAAAGACTGATCTGCAATGAA 263
 DB 268 GAAGGCGGATTCACATCTCCAGAGACAGCCAAAGACTGATCTGCAATGAA 327
 OY 264 CAGCCTGAGAGCCGAGACAGCGCTGTGACTACTGTGGAGAGATTCTAGTACAGTAA 323
 DB 328 CAGCCTGAGAGCCGAGACAGCGCTGTGACTACTGTGGAGAGATTCTAGTACAGTAA 387
 OY 324 T 324
 DB 388 T 388

RESULT 13
 LOCUS BX379829 1138 bp mRNA linear EST 08-MAY-2003
 DEFINITION BX379829 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
 clone CS0D1040YE16 5-PRIME, mRNA sequence.
 ACCESSION BX379829
 VERSION BX379829.1 GI:30454789
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 1138)
 Full-length cDNA libraries and normalization
 Unpublished
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr; Web: www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 7198.r For
 more information about this cluster, see
 http://www.genoscope.cns.fr/
 cgi-bin/cluster.cgi?seq=CS0D1040BC080P1&cluster=7198.r. Contact :
 Feng Liang Email: fliang@lifetech.com URL :
 http://fulllength.invitrogen.com/Invitrogen Corporation 1600
 Faraday Avenue Genoscope sequence ID : CS0D1040BC080P1.
 Location/Qualifiers
 1..1138
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CS0D1040YE16"
 /tissue_type="PLACENTA COT 25-NORMALIZED"
 /clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
 /note="1st strand cDNA was primed with a NotI-oligo(dT)
 primer. Five prime end enriched, double-strand cDNA was
 digested with NotI and EcoRV into the NotI and EcoRV
 sites of the pCMVSPORT 6 vector. Library was normalized."

BASE COUNT 250 a 323 c 329 g 225 t 11 others

ORIGIN
 Query Match 67.9%; Score 266.8; DB 13; Length 1138;

Best Local Similarity 86.5%; Pred. No. 1e-62;
 Matches 320; Conservative 0; Mismatches 17; Indels 33; Gaps 1;

OY 24 GGTGAGTCTGGGGAGAGCCCTGGTCAAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 83
 DB 197 GGTGAGTCTGGGGAGAGCCCTGGTCAAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 256
 OY 84 CTCTGATTCACCTTCAGTAGTATAGACATGACATGCTGGCCGCAAGGATCCAGGAAAGG 143
 DB 257 CTCTGATTCACCTTCAGTAGTATAGACATGACATGCTGGCCGCAAGGATCCAGGAAAGG 316
 OY 144 GCTGAGTGGTCTCATCTCATCTAGTAAATAGTAACTTACATATCTACGACGACGAGT 203
 DB 317 GCTGAGTGGTCTCATCTCATCTAGTAAATAGTAACTTACATATCTACGACGACGAGT 376
 OY 204 GAAGGCGGATTCACATCTCCAGAGACAGCCAAAGACTGATCTGCAATGAA 263
 DB 377 GAAGGCGGATTCACATCTCCAGAGACAGCCAAAGACTGATCTGCAATGAA 436
 OY 264 CAGCCTGAGAGCCGAGACAGCGCTGTGACTACTGTGGAGAGATTCTAGTACAGTAA 323
 DB 437 CAGCCTGAGAGCCGAGACAGCGCTGTGACTACTGTGGAGAGATTCTAGTACAGTAA 480
 OY 324 TTTCCTCGTTGGTGGAGCGCGATGATGAGCTGTGGGGCAAGGACAGCGTCAT 383
 DB 481 -----GGGGGTCAGGATGAGCTGTGGGGCAAGGACAGCGTCAC 523
 OY 384 GGTCTCTCA 393
 DB 524 GGTCTCTCA 533

RESULT 14
 LOCUS BX417408 1201 bp mRNA linear EST 13-MAY-2003
 DEFINITION BX417408 Homo sapiens PLACENTA Homo sapiens cDNA clone CS0DE009Y115
 5-PRIME, mRNA sequence.
 ACCESSION BX417408
 VERSION BX417408.1 GI:30650401
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 1201)
 Full-length cDNA libraries and normalization
 Unpublished
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr; Web: www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 7198.r For
 more information about this cluster, see
 http://www.genoscope.cns.fr/
 cgi-bin/cluster.cgi?seq=CS0DE009A080P1&cluster=7198.r. Contact :
 Feng Liang Email: fliang@lifetech.com URL :
 http://fulllength.invitrogen.com/Invitrogen Corporation 1600
 Faraday Avenue Genoscope sequence ID : CS0DE009A080P1.
 Location/Qualifiers
 1..1201
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="CS0DE009Y115"
 /tissue_type="PLACENTA"
 /clone_lib="Homo sapiens PLACENTA"
 /note="Vector: pCMVSPORT 6; 1st strand cDNA was primed
 with a NotI-oligo(dT) primer. Five prime end enriched,
 double-strand cDNA was digested with NotI and EcoRV into
 the NotI and EcoRV sites of the pCMVSPORT 6 vector.
 Library was not normalized."

FEATURES
 source

BASE COUNT 266 a 331 c 324 g 240 t 40 others
ORIGIN

Query Match 67.9%; Score 266.8; DB 13; Length 1201;
Best Local Similarity 86.5%; Pred. No. 1e-62;
Matches 320; Conservative 0; Mismatches 17; Indels 33; Gaps 1;

QY 24 GGTGAGTCTGGGGAGAGCCGTGTCAGACCCGCGGGGCTCCTGAGACTCTCTGTGCAGC 83
|||||
DB 206 GGTGAGTCTGGGGAGAGCCGTGTCAGACCCGCGGGGCTCCTGAGACTCTCTGTGCAGC 265
|||||

QY 84 CTCTGATTCACCTTCAGTACCTATAGCATGACACTGGGTCGCGAGGGTCCAGGGAAGG 143
|||||
DB 266 CTCTGATTCACCTTCAGTACCTATAGCATGACACTGGGTCGCGAGGGTCCAGGGAAGG 325
|||||

QY 144 GCTGAGTGGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203
|||||
DB 326 GCTGAGTGGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 385
|||||

QY 204 GAAGGGCCGATTTCACCATCTCCAGAGACAGCCAGAACCTGATATCTGCAATGAA 263
|||||
DB 386 GAAGGGCCGATTTCACCATCTCCAGAGACAGCCAGAACCTGATATCTGCAATGAA 445
|||||

QY 264 CAGCTTGAGAGCCGAGACACAGCGCTGTGTACTGTGCGAGAGATTCTAGATACAGTAA 323
|||||
DB 446 CAGCTTGAGAGCCGAGACACAGCGCTGTGTACTGTGCGAGAGATTCTAGATACAGTAA 489
|||||

QY 324 TTTCCTCGGTGGTTGGAGCGGAGTATGAGAGCTGGGGCCAGAGGACAGGTCAT 383
|||||
DB 490 -----GGGGGTACGGTATGAGAGCTGGGGCCAGAGGACAGGTCAT 532
|||||

QY 384 CGTCTCTCA 393
|||||

DB 533 CGTCTCCCA 542
|||||

RESULT 15
AM402793 447 bp mRNA linear EST 16-FEB-2000
LOCUS
DEFINITION UI-HF-BKO-2a2g-a-05-0-UI.r1 NIH_MGC_36 Homo sapiens cDNA clone
IMAGE:3054608 5', mRNA sequence.
ACCESSION AM402793
VERSION AM402793.1 GI:6921535
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: M. B. Soares Lab
cDNA Library Arrayed by: M. B. Soares Lab
DNA Sequencing by: M. B. Soares Lab
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/dbp/image/image.html
Seq primer: M13 Forward.
Location/Qualifiers
1. 447
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3054608"
/tissue_type="lymph"
/cell_type="germinal center B cells"
/cell_line="MGC85"
/lab_host="DH10B (LTI)"

/clone_lib="NIH_MGC_36"
/note="Vector: pT73-Pac; Site_1: NotI; Site_2: Eco RI;
Constructed from size fractionated cytoplasmic mRNA
(0.5-1.5kb). Directionally cloned. Cells provided by Louis
M. Staudt, Ph.D. Library preparation by Maria de Fatima
Bonaldi, Ph.D. and M. Bento Soares, Ph.D."

BASE COUNT 97 a 110 c 137 g 103 t
ORIGIN

Query Match 67.2%; Score 264; DB 9; Length 447;
Best Local Similarity 93.2%; Pred. No. 3.6e-62;
Matches 276; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGAGAGCCGTGTCAGACCCGCGGGGCTCCTGAGACTCTCTGTGCAGC 83
|||||
DB 106 GGTGAGTCTGGGGAGAGCCGTGTCAGACCCGCGGGGCTCCTGAGACTCTCTGTGCAGC 165
|||||

QY 84 CTCTGATTCACCTTCAGTACCTATAGCATGACACTGGGTCGCGAGGGTCCAGGGAAGG 143
|||||
DB 166 CTCTGATTCACCTTCAGTACCTATAGCATGACACTGGGTCGCGAGGGTCCAGGGAAGG 225
|||||

QY 144 GCTGAGTGGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203
|||||
DB 226 GCTGAGTGGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 285
|||||

QY 204 GAAGGGCCGATTTCACCATCTCCAGAGACAGCCAGAACCTGATATCTGCAATGAA 263
|||||
DB 286 GAAGGGCCGATTTCACCATCTCCAGAGACAGCCAGAACCTGATATCTGCAATGAA 345
|||||

QY 264 CAGCTTGAGAGCCGAGACACAGCGCTGTGTACTGTGCGAGAGATTCTAGATACAGTAA 319
|||||
DB 346 CAGCTTGAGAGCCGAGACACAGCGCTGTGTACTGTGCGAGAGATTCTAGATACAGTAA 401
|||||

RESULT 16
BG340686 738 bp mRNA linear EST 27-FEB-2001
LOCUS
DEFINITION 60246226BP1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4575041 5',
mRNA sequence.
ACCESSION BG340686
VERSION BG340686.1 GI:13147124
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: Ling Hong/Rubin Laboratory
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L10M1285 row: h column: 18
High quality sequence stop: 733.
Location/Qualifiers
1. 738
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4575041"
/tissue_type="Primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_48"
/note="Organ: B-cells; Vector: pOTB7; Site_1: XhoI;
Site_2: EcoRI; cDNA made by oligo-dT priming.
Directionally cloned into EcoRI/XhoI sites using the

following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling Hong in the Laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library.

BASE COUNT 156 a 207 c 213 g 161 t 1 others

Query Match 67.0%; Score 263.2; DB 10; Length 738; Best Local Similarity 96.9%; Pred. No. 7.8e-62; Indels 1; Gaps 1; Matches 279; Conservative 0; Mismatches 8;

24 GGTGAGTCTGGGGAGGCGCTGTGTCAGACCTGGGGGCTCCTGTGACCTCCCTGTGACG 83
134 GGTGAGTCTGGGGAGGCGCTGTGTCAGACCTGGGGGCTCCTGTGACCTCCCTGTGACG 193
84 CTCTGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 143
194 CTCTGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 252
144 GCTGAGTGGGTCTCATTCATTAAGTAATTAATTAATTAATTAATTAATTAATTAAT 203
253 GCTGAGTGGGTCTCATTCATTAAGTAATTAATTAATTAATTAATTAATTAATTAAT 312
204 GAAGGGCGGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 263
313 GAAGGGCGGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 372
264 CAGCCTGAGAGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGG 311
373 CAGCCTGAGAGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGG 420

RESULT 17 613 bp mRNA linear EST 30-OCT-2001
BM007475 60361672F1 NIH_MGC_113 Homo sapiens cDNA clone IMAGE:5440475 5',
LOCUS B0007475
DEFINITION B0007475.1 GI:16521829
ACCESSION B0007475.1
VERSION B0007475.1
KEYWORDS EST.
SOURCE Homo sapiens
ORGANISM Homo sapiens (human)

REFERENCE 1 (bases 1 to 613)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: gragsb-remail.nih.gov
Tissue Procurement: Dr. Mark Watson
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LNCM1913 row: d column: 12
High quality sequence stop: 608.
Location/Qualifiers

FEATURES

1..613
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5440475"
/lab_host="DH10B (phage-resistant)"
/note="Organ: Spleen; Vector: pORF7; Site:1: XhoI; Site:2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Library constructed by Ling Hong in the

Laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies). Note: this is a NIH_MGC Library."

BASE COUNT 126 a 172 c 174 g 141 t

Query Match 65.8%; Score 258.4; DB 12; Length 613; Best Local Similarity 94.4%; Pred. No. 1.5e-60; Indels 0; Gaps 0; Matches 268; Conservative 0; Mismatches 16;

24 GGTGAGTCTGGGGAGGCGCTGTGTCAGACCTGGGGGCTCCTGTGACCTCCCTGTGACG 83
132 GGTGAGTCTGGGGAGGCGCTGTGTCAGACCTGGGGGCTCCTGTGACCTCCCTGTGACG 191
84 CTCTGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 251
192 CTCTGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 251
144 GCTGAGTGGGTCTCATTCATTAAGTAATTAATTAATTAATTAATTAATTAATTAAT 203
252 GCTGAGTGGGTCTCATTCATTAAGTAATTAATTAATTAATTAATTAATTAATTAAT 311
204 GAAGGGCGGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 263
312 GAAGGGCGGATTCACCTTCAGTACCTATAGCATCTGCTGGGCGGAGGTCAGGAAAGG 371
264 CAGCCTGAGAGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGG 307
372 CAGCCTGAGAGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGGCGGAGG 415

RESULT 18 879 bp mRNA linear EST 15-MAY-2001
BG759748 602711146F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4851587 5',
LOCUS BG759748
DEFINITION BG759748.1 GI:14070401
ACCESSION BG759748.1
VERSION BG759748.1
KEYWORDS EST.
SOURCE Homo sapiens (human)

REFERENCE 1 (bases 1 to 879)
AUTHORS NIH-MGC http://mgc.nci.nih.gov/
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished
COMMENT Contact: Robert Strausberg, Ph.D.
Email: gragsb-remail.nih.gov
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: LNCM1694 row: k column: 12
High quality sequence stop: 879.
Location/Qualifiers

FEATURES

1..879
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4851587"
/tissue_type="primary B-cells from tonsils (cell line)"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_48"
/note="Organ: B-cells; Vector: pORF7; Site:1: XhoI; Site:2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCACGAG(G). Size-selected >500bp for average insert size 1.8kb. Library constructed by Ling

Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
Note: this is a NIH-MGC library."

BASE COUNT

181 a 280 c 238 g 180 t

ORIGIN

Query Match 65.8%; Score 258.4; DB 10; Length 879;
Best Local Similarity 94.4%; Pred. No. 1.8e-60;
Matches 268; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTCAGC 83
DB 138 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTCAGC 197
QY 84 CTCTGATTCACCTTCAGTATAGCATGACATGACGCGGTCGCGGTCGAGGGAAGG 143
DB 198 CTCTGATTCACCTTCAGTATAGCATGACATGACGCGGTCGCGGTCGAGGGAAGG 257
QY 144 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATACAGCAGCAGT 203
DB 258 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATACAGCAGCAGT 317
QY 204 GAAGGCGGATTCACCATCTCCAGAGACAGCCCAAGACTCTATCTGCAATGAA 263
DB 318 GAAGGCGGATTCACCATCTCCAGAGACAGCCCAAGACTCTATCTGCAATGAA 377
QY 264 CAGCCTGAGAGCCGAGACAGCGGCTGTACTACTGTGCGAGAG 307
DB 378 CAGCCTGAGAGCCGAGACAGCGGCTGTACTACTGTGCGAGAG 421

RESULT 19

LOCUS B0709879 890 bp mRNA linear EST 16-JUL-2002
DEFINITION AGNCOURT.8354557 NIH-MGC_113 Homo sapiens CDNA clone IMAGE:6281260
5', mRNA sequence.

ACCESSION B0709879
VERSION B0709879.1 GI:21848778

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
1 (bases 1 to 890)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-remail.nih.gov
Tissue Procurement: Dr. Mark Watson
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
http://image.lnl.gov
Plate: L1CM2473 row: m column: 05
High quality sequence start: 11
High quality sequence stop: 564.
Location/Qualifiers

FEATURES

source

1. 890
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:6281260"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH-MGC_113"
/note="Organ: spleen; Vector: pORF7; Site.1: XhoI; Site.2: EcoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGAG(g). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California,

BASE COUNT

192 a 279 c 240 g 178 t 1 others

ORIGIN

Query Match 65.5%; Score 257.4; DB 13; Length 890;
Best Local Similarity 92.8%; Pred. No. 3.4e-60;
Matches 270; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTCAGC 83
DB 129 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTCAGC 188
QY 84 CTCTGATTCACCTTCAGTATAGCATGACATGACGCGGTCGCGGTCGAGGGAAGG 143
DB 189 CTCTGATTCACCTTCAGTATAGCATGACATGACGCGGTCGCGGTCGAGGGAAGG 248
QY 144 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATACAGCAGCAGT 203
DB 249 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATACAGCAGCAGT 308
QY 204 GAAGGCGGATTCACCATCTCCAGAGACAGCCCAAGACTCTATCTGCAATGAA 263
DB 309 GAAGGCGGATTCACCATCTCCAGAGACAGCCCAAGACTCTATCTGCAATGAA 368
QY 264 CAGCCTGAGAGCCGAGACAGCGGCTGTACTACTGTGCGAGAGTTCTAG 314
DB 369 CAGCCTGAGAGCCGAGACAGCGGCTGTACTACTGTGCGAGAGTTCTAG 419

RESULT 20

LOCUS AM401428 443 bp mRNA linear EST 16-FEB-2000
DEFINITION UT-HF-BK0-aad-b-02-0-UT.1 NIH-MGC_36 Homo sapiens CDNA clone
IMAGE:3053139 5', mRNA sequence.

ACCESSION AM401428
VERSION AM401428.1 GI:6920011

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
1 (bases 1 to 443)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgaabs-remail.nih.gov
Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
CDNA Library Preparation: M.B. Soares Lab
CDNA Library Arrayed by: M.B. Soares Lab
DNA Sequencing by: M.B. Soares Lab
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at:
www.bio.lnl.gov/bbrp/image/image.html
Seq primer: M13 forward
Location/Qualifiers

FEATURES

source

1. 443
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3053139"
/tissue_type="lymph"
/cell_type="germinal center B cells"
/cell_line="MGC85"
/lab_host="DH10B (LTI)"
/clone_lib="NIH-MGC_36"
/note="Vector: p7T3-Pac; Site.1: NotI; Site.2: Eco RI; Constructed from size fractionated cytoplasmic mRNA (0.5-1.5kb). Directionally cloned. Cells provided by Louis M. Staudt, Ph.D. Library preparation by Maria de Fatima

Wed Sep 24 09:31:34 2003

us-09-848-798a-97.rst

Page 12

	Bonaldo, Ph.D. and M. Bento Soares, Ph.D.			
BASE COUNT	93 a	116 c	131 g	103 t
ORIGIN				

Query Match	65.3%;	Score 256.8;	DB 9;	Length 443;
Best Local Similarity	94.0%;	Pred. No. 3.4e-60;		
Matches 267;	Conservative	0;	Mismatches 17;	Indels 0;
				Gaps 0;

OY	24	GGGAGAGTGTGGGGAGGCGCTGGTCAACCCCTGGGGGGTCCCTGACATCTCTCTGAGAC	152
Db	93	GGGAGAGTGTGGGGAGGCGCTGGTCAACCCCTGGGGGGTCCCTGAGATCTCTCTGTCAG	153
OY	84	CTGTGATTTACACCTTCAGTAGAGTATAGCATCTACTGGGTCCGCCAGGGTCCAGGAAAGG	143
Db	153	CTGTGATTTACACCTTCACACTACATCAACCATCAACCTGGGTCCGCCAGGGCTCCAGGAAAGG	212
OY	144	GGCGAGTGGGGTCTCATCTCATTAGTAAGTAAGTAATCTTACATATATACACGACAGCGAGT	203
Db	213	GGCGAGTGGGGTCTCATCTCATTAGTAAGTAAGTAAGTACTTACATATATACACGAGAGCTAGT	272
OY	204	GAAGGGCCATTACCATCTCCAGAGACACAGCCCAAGAACTCACTGTATCTGCAAAATGAA	263
Db	273	GAAGGGCCATTACCATCTCCAGAGACACAGCCCAAGAACTCACTGTATCTGCGAGATGAA	332
OY	264	CAGCCTGAGACCGAGACACAGGCGGTGTACTACTGTCTGCGAGAG	307
Db	333	CAGCCTGAGACCGAGAGACACCGCTCTCTATTTACTGTGCGAGAG	376

Search completed: September 24, 2003, 04:42:48
job time : 2285 secs

Db 61 TCCCTGAGACTCTCTGTCGACGCTTCGATTCCACCTTCAGTAGCTATAGCATGCACTGG 120
QY 121 GTCCGCCAGAGGTCACAGGGAAGGGGCTGAGTGGGTCTCATTCATTAGTAATAGTAATCT 180
Db 121 GTCCGCCAGAGGTCACAGGGAAGGGGCTGAGTGGGTCTCATTCATTAGTAATAGTAATCT 180
QY 181 TACATATACAGCAGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 240
Db 181 TACATATACAGCAGACGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 240
QY 241 AACCTCACTGATCTGCAATGAACAGCCTGAGAGCCGACACAGCCTGTGTACTACTGT 300
Db 241 AACCTCACTGATCTGCAATGAACAGCCTGAGAGCCGACACAGCCTGTGTACTACTGT 300
QY 301 GGAGAGATTCTAGATAGAGTAATTTCTCGGTGGTTCGAGAGGAGGATATGAGAGTC 360
Db 301 GGAGAGATTCTAGATAGAGTAATTTCTCGGTGGTTCGAGAGGAGGATATGAGAGTC 360
QY 361 TGGGGCCAGAGGACGACGCTCATGCTTCCTCA 393
Db 361 TGGGGCCAGAGGACGACGCTCATGCTTCCTCA 393

RESULT 2

US-09-240-274-96
Sequence 96, Application US/09240274
Patent No. 6253455
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/240,274
EARLIER FILING DATE: 1999-01-29
EARLIER APPLICATION NUMBER: 60/081,380
EARLIER FILING DATE: 1998-04-10
EARLIER APPLICATION NUMBER: 60/028,550
EARLIER FILING DATE: 1996-10-11
NUMBER OF SEQ ID NOS: 224
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO: 96
LENGTH: 381
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: anti-Rh(D) chain E01
US-09-240-274-96

Query Match 92.5%; Score 363.6; DB 3: Length 381;
Best Local Similarity 98.9%; Pred. No. 8.4e-104;
Matches 366; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
QY 24 GGTGAGTCTGGGGGAGGCTGTCAGGCTGGGGGGGCTCCGAGACGCTCTGTCGACG 83
Db 12 GTCGAGTCTGGGGGAGGCTGTCAGGCTGGGGGGGCTCCGAGACGCTCTGTCGACG 71
QY 84 CTCGTGATTCACCTTCAGTACGATGATGATGATGATGATGATGATGATGATGATGATGAT 143
Db 72 CTCGTGATTCACCTTCAGTACGATGATGATGATGATGATGATGATGATGATGATGAT 131
QY 144 GCTGAGTGGTCTCATCCATTAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203
Db 132 GCTGAGTGGTCTCATCCATTAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 191
QY 204 GAAGGCGGATTCACCATCTCCAGAGAACGCCAAGAACTCACTACTGTCTGCAAAATGAA 263
Db 192 GAAGGCGGATTCACCATCTCCAGAGAACGCCAAGAACTCACTACTGTCTGCAAAATGAA 251
QY 264 CAGCCTGAGAGCGGAGACAGCGCTGTACTACTGTGAGAGAGATTTAGATACAGTAA 323
Db 252 CAGCCTGAGAGCGGAGACAGCGCTGTACTACTGTGAGAGAGATTTAGATACAGTAA 311
QY 324 TTTCCTCGTTGGTTCGAGGAGCGATATGAGAGCTGTGGGGCCAAAGGACACAGGTCAT 383

Db 312 TTTCTCGTGGGTGGGAGGAGGCTGATGAGAGCTGTGGGGCCAAAGGACACAGGTCAT 371
QY 384 CGTCTCTCA 393
Db 372 CGTCTCTCA 381

RESULT 3

US-08-545-809A-21
Sequence 21, Application US/08545809A
Patent No. 6096878
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Matsuda, Fumihiko
TITLE OF INVENTION: HUMAN IMMUNOGLOBULIN VH GENE
NUMBER OF SEQUENCES: 145
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson, P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/545,809A
FILING DATE: 27-MAR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/JP93/00603
FILING DATE: 10-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: Freeman, John W.
REGISTRATION NUMBER: 29,066
REFERENCE/DOCKET NUMBER: 06501/004001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-542-5070
TELEFAX: 617-542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 519 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
CELL TYPE: human lymphoblast
CELL LINE: GM1

Query Match 69.3%; Score 272.2; DB 3: Length 519;
Best Local Similarity 97.2%; Pred. No. 2.6e-75;
Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGGAGGCTGTCAGGCTGGGGGGTCCCTGAGACTCTCTGTCGACG 83
Db 180 GGTGAGTCTGGGGGAGGCTGTCAGGCTGGGGGGTCCCTGAGACTCTCTGTCGACG 239
QY 84 CTCGTGATTCACCTTCAGTACGATGATGATGATGATGATGATGATGATGATGATGATGAT 143
Db 240 CTCGTGATTCACCTTCAGTACGATGATGATGATGATGATGATGATGATGATGATGAT 299
QY 144 GCTGAGTGGTCTCATCCATTAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203
Db 300 GCTGAGTGGTCTCATCCATTAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 359

QY 204 GAAGGCCGATTCACCATCTCCAGACACGCCAAGAATCTGATCTGCAATGAA 263
|||||
DB 360 GAAGGCCGATTCACCATCTCCAGACACGCCAAGAATCTGATCTGCAATGAA 419
QY 264 CAGCTGAGAGCCGAGACACGGCTGTACTACTGTCCGAGAGA 308
|||||
DB 420 CAGCTGAGAGCCGAGACACGGCTGTACTACTGTCCGAGAGA 464

RESULT 4

US-08-545-809A-48

; Sequence 48, Application US/08545809A

; Patent No. 6096878

; GENERAL INFORMATION:

; APPLICANT: Honjo, Tasuku

; APPLICANT: Matsuda, Fumihiko

; TITLE OF INVENTION: HUMAN IMMUNOGLOBULIN VH GENE

; TITLE OF INVENTION: SEGMENTS AND DNA FRAGMENTS CONTAINING THE SAME

; NUMBER OF SEQUENCES: 145

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson, P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: US

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette

; OPERATING SYSTEM: Windows95

; SOFTWARE: FASTSEQ for Windows Version 2.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/545.809A

; FILING DATE: 27-MAR-1996

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: PCT/JP93/00603

; FILING DATE: 10-MAY-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Freeman, John W.

; REGISTRATION NUMBER: 29,066

; REFERENCE/DOCKET NUMBER: 06501/004001

; TELEPHONE: 617-542-5070

; TELEFAX: 617-542-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 48:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 743 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: Genomic DNA

; ORIGINAL SOURCE:

; ORGANISM: Homo sapiens

; CELL TYPE: Human lymphoblast

; CELL LINE: CGM1

; US-08-545-809A-48

Query Match 65.6%; Score 257.8; DB 3; Length 743;
Best Local Similarity 94.0%; Pred. No. 9e-71;
Matches 268; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 24 GGTGAGCTGTGGGGAGGCGCTGTCAGACCTGGGGGGTCCCTGAGACCTCTCTGTGCAGC 83
|||||
DB 345 GGTGAGCTGTGGGGAGGCGCTGTCAGACCTGGGGGGTCCCTGAGACCTCTCTGTGCAGC 404
QY 84 CTCTGATTCACCTTCACTAGCTATAGCATGCACTGGGTCGCCGCAAGGCTCCAGGGAAGG 143
|||||
DB 405 CTCTGATTCACCTTCACTAGCTATAGCATGCACTGGGTCGCCGCAAGGCTCCAGGGAAGG 464
QY 144 GCTGAGTGGGCTGTCATCATTTAGTAATGTAATCTTACATATATCTACGACGAGCGACT 203
|||||
DB 465 GCTGAGTGGGCTTTCATCATTTAGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTA 524

QY 204 GAAGGCCGATTCACCATCTCCAGACACGCCAAGAATCTGATCTGCAATGAA 263
|||||
DB 525 GAAGGCCGATTCACCATCTCCAGACACGCCAAGAATCTGATCTGCAATGAA 584
QY 264 CAGCTGAGAGCCGAGACACGGCTGTACTACTGTCCGAGAGA 308
|||||
DB 585 CAGCTGAGAGCCGAGACACGGCTGTACTACTGTCCGAGAGA 629

RESULT 5

PCT-US93-12501-2

; Sequence 2, Application PC/TUS9312501

; GENERAL INFORMATION:

; APPLICANT: Chang, Tse Wen

; TITLE OF INVENTION: ALLERGEN-SPECIFIC IGA MONOCLONAL ANTIBODIES AND

; TITLE OF INVENTION: RELATED PRODUCTS FOR ALLERGY TREATMENT

; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Tanox Biosystems, Inc.

; STREET: 10301 Stella Link Rd.

; CITY: Houston

; STATE: Texas

; COUNTRY: USA

; ZIP: 77025

; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Hi Density Diskette

; OPERATING SYSTEM: DOS, Version 3.30

; SOFTWARE: Wordperfect 5.1

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US93/12501

; FILING DATE:

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Mirabel, Eric P.

; REGISTRATION NUMBER: 31,211

; REFERENCE/DOCKET NUMBER: TXN92-3

; TELEPHONE: 713-664-2288

; TELEFAX: 713-664-8914

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 376 nucleotides

; TYPE: nucleic acid

; STRANDEDNESS: double stranded

; TOPOLOGY: Linear

; PCT-US93-12501-2

Query Match 64.5%; Score 253.6; DB 5; Length 376;
Best Local Similarity 81.5%; Pred. No. 1.4e-69;
Matches 308; Conservative 0; Mismatches 64; Indels 6; Gaps 1;

QY 16 GAGTGTGGGGTGGAGTCTGGGGAGGCGCTGGCAAGCTGGGGGTCCCTGAGACTCTCC 75
|||||
DB 4 GAGCAGGTGTGGAGTCTGGGGAGGCGCAAGCTGGGGGTCCCTGAGACTCTCC 63
QY 76 TGTGAGGCTGTGATTCACCTTCACTAGCTATAGCATGCACTGGGTCGCCGAGGTCGA 135
|||||
DB 64 TGTGAGGCTGTGATTCACCTTCACTAGCTATAGCATGCACTGGGTCGCCGAGGTCGA 123
QY 136 GGGAGGGGCTGGAGTGGTCTCATCTTAACTAATGTAATGTAATGTAATGTAATGTAATG 195
|||||
DB 124 GGGAGGGGCTGGAGTGGTCTCATCTTAACTAATGTAATGTAATGTAATGTAATGTAATG 183
QY 196 GAGCAGTGAAGGGCGGATTCACCATTCGAGAGCAAGGCAAGAACTCACTGATCTG 255
|||||
DB 184 GACTCATTTGAAGGGCGGATTCACCATTCGAGAGCAAGGCAAGAACTCTCTCTTTCTG 243
QY 256 CAAATGAACAGCTGTGAGAGCGAGCAAGGCTGTGTACTACTGTGCGAGAGATTCTAGA 315

Wed Sep 24 09:31:32 2003

us-09-848-798a-97.rni

Page 4

Db	244	CAAAATTAACAGCCTGAGAGCCAGAGACACGGCTGTATTATCTGTGAGAGAG-----TA	297
QY	316	TACAGTAATTTCTCCGTGGTTGGTGGAACACGGTATAGACAGCTGGGGCCAAGGGACC	375
Db	298	TTGATCTTTTGACGTCAAAACCAACTTTATTACTATACATGAGACGCTGGGGCCAAGGGACC	357
QY	376	ACGGTCATCGTCTCCTCA	393
Db	358	ACGGTGGCCGTCTCCTCA	375

```

RESULT 6
US-10-039-785-65
: Sequence 65, Application US/10039785
: Patent No. 6538938
GENERAL INFORMATION:
APPLICANT: Salcedo et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind to TRAIL
TITLE OF INVENTION: Receptors
FILE REFERENCE: PF550
CURRENT APPLICATION NUMBER: US/10/039,785
CURRENT FILING DATE: 2002-05-07
PRIORITY APPLICATION NUMBER: 60/369,860
PRIORITY FILING DATE: 2002-04-05
PRIORITY APPLICATION NUMBER: 60/341,237
PRIORITY FILING DATE: 2001-12-20
PRIORITY APPLICATION NUMBER: 60/331,310
PRIORITY FILING DATE: 2001-11-14
PRIORITY APPLICATION NUMBER: 60/331,044
PRIORITY FILING DATE: 2001-11-07
PRIORITY APPLICATION NUMBER: 60/327,364
PRIORITY FILING DATE: 2001-10-09
PRIORITY APPLICATION NUMBER: 60/323,807
PRIORITY FILING DATE: 2001-09-21
PRIORITY APPLICATION NUMBER: 60/309,176
PRIORITY FILING DATE: 2001-08-02
PRIORITY APPLICATION NUMBER: 60/294,981
PRIORITY FILING DATE: 2001-06-04
PRIORITY APPLICATION NUMBER: 60/293,473
PRIORITY FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 66
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 65
LENGTH: 747
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: DNA encoding T1006P07 scFv
US-10-039-785-65

```

[illegible]

Db	252	CACCCGAAAGAGCCGAGAGAACGCGCCGTGATTAAGTCTGCGAGAAACACATCCTTTCAGCA	3111
QY	324	TTTCCTCCGTTGGGTTGCGAGCGAGCGATGAGCTGGGGCCAGAGGACACAGTCAT	3839
Db	312	GTCGGGGCAGCT-----ACTCCTAAGGATATGAGACTCTGGGGCCAGGGAGCAAAATGGTTCAC	3655
QY	384	CGTCTC	389
Db	366	CGTCTC	371

RESULT 7
 US-08-545-809A-11 Application US/08545809A
 Sequence 11, Patent No. 6096878
 GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Matsuda, Fumihiko
 TITLE OF INVENTION: HUMAN IMMUNOGLOBULIN VH GENE
 TITLE OF INVENTION: SEGMENTS AND DNA FRAGMENTS CONTAINING THE SAME
 NUMBER OF SEQUENCES: 145
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Fish & Richardson, P.C.
 STREET: 225 Franklin Street
 CITY: Boston
 STATE: MA
 COUNTRY: US
 ZIP: 02110-2804
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: Windows95
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/545, 809A
 FILING DATE: 27-MAR-1996
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/JP93/00603
 FILING DATE: 10-MAY-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Freeman, John W.
 REGISTRATION NUMBER: 29,066
 REFERENCE/DOCKET NUMBER: 06501/004001
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 617-542-5070
 TELEFAX: 617-542-8906
 TELEX: 200154
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 715 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: Genomic DNA
 ORIGINAL SOURCE:
 ORGANISM: Homo sapiens
 CELL TYPE: human lymphoblast
 CELL LINE: CGM1

Query Match	Similarity	Score	DB	length
Best local	87.5%	245.8	DB 3	715
Matches	288; Conservative	Pred. No. 4.8e-67;	Mismatches 37; Indels 0; Gaps 0;	
QY	4	GTGCAAGCTGCTGATCTGGGGGAGCTGTCACAGCTGGGGGTC	63	
DB	351	GTTCACGTGTCAGCTCAGCTGTGAGATCTGGGGAGCTTGTCACAGCTGAGGGTTC	410	
QY	64	CTGAGACTCTCTGTGCAGCCTCTGATTAACCTTCAGTAGCTATAGCATGCACTGGGTC	123	
DB	411	CTGAGACTCTCTGTGCAGCCTCTGAGATTACCTTCAGTAGCTATAGCATGCACTGGGTC	470	
QY	124	CGCCAGGGCTCCAGGAGAGGGCTGAGATGGGCTCATCATCAATTGTAATGTAATACTTAC	183	


```

; SEQ ID NO 94
;
; LENGTH: 378
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
; FEATURE:
;
; OTHER INFORMATION: anti-Rh(D) chain D30
US-09-240-274-94

```

Query Match	60.8%;	Score 238.8;	DB 3;	Length 378;
Best Local Similarity	79.7%;	Pred. No. 5.6e-65;		
Matches 295;	Conservative 0;	Mismatches 72;	Indels 3;	Gaps 1;

Oy	24	GGTGGAGCTCTGGGGAGAGCCCTGGTCAACGCTGGGGGGTCCCTGAGACTCTCTGTGCAC	83
Db	12	GCTGGAGTCGGGGGAGGCGTGGTCCAGCCTGGGAGGTCCCTGAGACTCTCTGTGCAC	71
Oy	84	CTCTGATTCACCTTCAGTAGCTATAGCATGATGCACGTGGGTCGCCGACAGGGTCCAGGGAAAGG	143
Db	72	GTCGTGATTCACCTTCAGTAGCTATAGCATGATGCACGTGGGTCGCCGACAGGGTCCAGGGAAAGG	131
Oy	144	GCTGGAGTGGGCTTCATCCATTTAGTAATAGTAATACCTTACATATATCTACGACAGCGAGT	203
Db	132	GCTGGAGTGGGTCGACAGTTGTCTACTATGATGAGATGAACAAACACTATTCAGACTCCGT	191
Oy	204	GAAGGGCCGATTCACCATCTCCAGAGACACGCCCAAGAATCTATCTGCAATGAA	263
Db	192	GAAGGGCCGATTCACCATCTCCAGAGACACGCCCAAGAATCTATCTGCAATGAA	251
Oy	264	CAGCCTGAGAGCCGAGACACGGGCTGTGACTACGTGGGAGAGATTCTAGATTACAGTAA	323
Db	252	CAGCCTGAGAGCCGAGAGACGGGCTGTGATTACTGTGGAGAGA--AAGAAATTTTGG	308
Oy	324	TTTCCCTCCGTTGGGTTTCGGAGCGAGGATATGAGCCTCTGGGGCCAAAGGACACGGTCAAT	383
Db	309	GAGTGGTATTTCCCGCTACTACTAGATGAGATGACGATCTGGGGCCCAAGGACACGGTCAAC	368
Oy	384	CGTCTCTCA 393	
Db	369	CGTCTCTCA 378	

RESULT 13
 US-09-240-274-196
 : Sequence 196, Application US/09240274
 : Patent No. 6255455
 : GENERAL INFORMATION:
 : APPLICANT: Siegel, Donald L.
 : TITLE OF INVENTION: Rh(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
 : TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
 : FILE REFERENCE: 09596-4202
 : CURRENT APPLICATION NUMBER: US/09/240,274
 : CURRENT FILING DATE: 1999-01-29
 : EARLIER APPLICATION NUMBER: 60/081,380
 : EARLIER FILING DATE: 1998-04-10
 : EARLIER APPLICATION NUMBER: 60/028,550
 : EARLIER FILING DATE: 1996-10-11
 : NUMBER OF SEQ ID NOS: 224
 : SOFTWARE: Patentin Ver. 2.0
 : SEQ ID NO 196
 : LENGTH: 378
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 : FEATURE:
 : OTHER INFORMATION: anti-Rh(D) antibody clone SH56
 US-09-240-274-196

Query Match	60.8%	Score 238.8	DB 3;	Length 378;
Local Similarity	79.7%	Pred. No. 5.6e-65;		
Matches 295;	Conservative 0;	Mismatches 72;	Indels 3;	Gaps 1.
0Y	24	GGTGAAGTCTGTGGGGAGGCGCTGTGTCMAAGCCGTGGGGGGGCTCCGTGAACATCTCTGTGGAGC	83	
db	12	GCTGAGAGCGGGGGAGGCGCTGTGTCACACCTGTGGGGAGGTCCTGGAACATCTCTGTGGAGC	71	

OY	84	CTGTGATTCACCTTCACTAGCTATTAGCATGCACACTGGCTCCGACAGGCTCAGGGAGAAGG	143
Db	72	GTCGTGATTCACCTTCACTAGTAGTGACATGCACACTGGCTCCGACAGGCTCAGGGAGAAGG	131
OY	144	GCTGGAGTGGGTCATCATCATTTAGTAATAAGTAAATCTTACATATATCTAACGCAGGCCAAT	203
Db	132	GCTGGAGTGGGTCGACAGTTGTCTACTATGATGGAAGTACAACAACTATTACAGCTCCGT	191
OY	204	GAAGGGCCGATTCACCATCTCCAGAGACAACCAGAACTCACTATCTCGAATATGAA	263
Db	192	GAAGGGCCGATTCACCATCTTTCAGAGACACACTCCAGAAGACAGCTGTATCTACAAATGGA	251
OY	264	CAGCCTGAGAGCCGAGCACACAGCGCTGTGTACTACTGTGGCAGAGATTTCAGATATACGTA	323
Db	252	CAGCCTGAGAGCCGAGGACGCGCTGTGTATTAAGTGTGGGAGAGA--AAGAAATTTTGG	308
OY	324	TTTTCTCCGTTGGGTTGGAGCGACGATATGAGAGCTCTGGGCCAAGGACACCGGTCA	383
Db	309	GAGTGTGTTATTCGCCGCTACTACTACGATATGAGACGCTCTGGGGCCACAGGAGCACCGGTAC	368
OY	384	CGTCTCCCTCA	393
Db	369	CGTCTCCCTCA	378

```

RESULT 14
US-09-560-198A-1
; Sequence 1, Application US/09560198A
; Patent No. 6492497
; GENERAL INFORMATION:
; APPLICANT: Thompson, Julia E
; APPLICANT: Leonard, Simon N
; APPLICANT: Wilton, Allison J
; APPLICANT: Braddock, Peta SH
; APPLICANT: Du Fou, Sarah L
; APPLICANT: McCaferly, John G
; APPLICANT: Conroy, Louise A
; APPLICANT: Tempest, Philip R
; TITLE OF INVENTION: Specific binding members for TGFbeta1
; FILE REFERENCE: 2811/336520A
; CURRENT APPLICATION NUMBER: US/09/560,198A
; CURRENT FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: US 60/131,983
; PRIOR FILING DATE: 1999-04-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 369
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-560-198A-1

```

	Query Match	60.3%	Score 236.8	DB 4	Length 369	
	Best Local Similarity	80.0%	Pred. No.2.3e-64			
	Matches 296	Conservative	0	Mismatches 62	Indels 12	Gaps 1
OY	24	GGTGGAGCTCTGGGGGAGGCGCTGGTAAAGCCTGGGGGGTCTCGAGACTCTCTGTGCAGC	83			
Db	12	GGTGACGCTGTGGGGGAGGCGGTGCACCGCTGGGAAGTCCCTGAGACTCTCCGTGTGCAGC	71			
OY	84	CTGTGGATTTCACCTTCAGTACCTAATAGCATGCACTGCTGGTCCGCGCAGGGTTCAGGGAAAGG	143			
Db	72	CTCTGGATTTCACCTTCAGTACCTAATAGCATGCACTGCACTGCTGGTCCGCGCAGGGTTCAGGGAAAGG	131			
OY	144	GCTGGAGTGGGCTCATCCATTAGTAATATGTAATCTTTCATATATACGACAGCCAGT	203			
Db	132	GCTGGAGTGGGCTCATCCATTAGTAATATGTAATCTTTCATATATACGACAGCCAGT	191			
OY	204	GAAGGGCGGATTCACCATCTCCAGAGACAAGCCCAAGAACTCACTGTATCTGCAATGAA	263			
Db	192	GAAGGGCGGATTCACCATCTCCAGAGACAATTCCAAGAACAGCGCTATCTGCAATGAA	251			

323 264 CAGCCTGAGAGCCGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 323
311 252 CAGCCTGAGAGCTGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 311
383 324 TTTCCTCCGTTGGGTTTCGAGAGCGATATGACAGCTGTGGGCGCAGGAGACAGGCTCAT 383
359 312 CTAC-----GATACGAGTGTGTGAGCTGTGGGCGCAGGAGACAGGCTCAT 359
393 384 CGTCTCTCA 393
369 360 CGTCTCTCA 369

RESULT 15
US-09-079-029-7
Sequence 7, Application US/09079029
Patent No. 6342369
GENERAL INFORMATION:
APPLICANT: Adams, Camilla W.
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Chuntharapai, Aman
APPLICANT: Kim, Kyung J.
TITLE OF INVENTION: Apo-2 Receptor
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 MB floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/079, 029
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Marschang, Diane L.
REGISTRATION NUMBER: 35,690
REFERENCE/DOCKET NUMBER: P1101R2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/2255416
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 939 base pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear

US-09-079-029-7

Query Match 59.9%; Score 235.6; DB 4; Length 939;
Best Local Similarity 80.1%; Pred No. Re-64; Indels 9; Gaps 1;
Matches 293; Conservative 0; Mismatches 64; Indels 9; Gaps 1;

323 264 GGTGAGTGTGGGAGGAGGCTGTCAAGCTGGGGGGGCGCCGAGAGCTCTCTGTGCAGC 83
311 129 GGTGAGTGTGGGAGGAGGCTGTCTCAGGCTGGGGGCTCCCTGAGAGCTCTCTGTGCAGC 188
383 84 CTCTGATTCACCTTCAGTACATATAGCATGCACTGGGTCGCGCAGAGGCTCAGGAGAGG 143
359 189 CTCTGATTCACCTTCAGTACATATAGCATGCACTGGGTCGCGCAGAGGCTCAGGAGAGG 248
393 144 GCTGAGTGGGCTCATCATATAGTAAATCTTACATATCTAATCTAATCTAATCTAATCTA 203
369 249 GCTGAGTGGGCTCATCATATAGTAAATCTTACATATCTAATCTAATCTAATCTAATCTA 308
393 204 GAAGGCGCATTTACATCTCCAGAGCAAGCAAGCCAGAGTCACTGATCTGCAATGAA 263

368 309 GAAGGCGCATTTACCATCTCCAGAGCAAGCCAGAGTCACTGATCTGCAATGAA 368
323 264 CAGCCTGAGAGCCGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 323
428 369 CAGCCTGAGAGCCGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACAGTAA 428
383 324 TTTCCTCCGTTGGGTTTCGAGAGCGATATGACAGCTGTGGGCGCAGGAGACAGGCTCAT 383
479 429 GGGAGCTGTGTGGGTTTCGAGAGCGATATGACAGCTGTGGGCGCAGGAGACAGGCTCAT 479

RESULT 16
US-08-652-816A-22
Sequence 22, Application US/08652816A
Patent No. 5872215
GENERAL INFORMATION:
APPLICANT: Osbourn, JK
APPLICANT: Allen, DJ
APPLICANT: McCallister, JG
TITLE OF INVENTION: Specific binding members, materials and
METHODS
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25 (ERO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/652,816A
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.4
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9125579.8
FILING DATE: 02-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206372.6
FILING DATE: 23-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9525004.9
FILING DATE: 07-DEC-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9610824.6
FILING DATE: 23-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/02240
FILING DATE: 02-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/244,597
FILING DATE: 01-JUN-1994
ATTORNEY/AGENT INFORMATION:
NAME: David W. Clough
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 28111/33308
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-4746300
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 354 base pairs

TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-652-816A-22

Query Match 59.6%; Score 234.2; DB 2; Length 354;
Best Local Similarity 88.5%; Pred. No. 1.5e-63;
Matches 254; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGGAGGCTGTCAAGCCTGGGGGGCTCCAGAGACTCTCCGTGTCACAC 83
DB 12 GGTGAGTCTGGGGGAGGCTGTGTTACAGCCTGGGGGGCTCCAGAGACTCTCCGTGTCACAC 71
QY 84 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCCGCCAGAGGTCCAGGAAGGG 143
DB 72 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCCGCCAGAGGTCCAGGAAGGG 131
QY 144 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATCTACGACAGCGCAGT 203
DB 132 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATCTACGACAGCGTCCGT 191
QY 204 GAAGGGCCGATTACCATCTCCAGAGACAGCGCAAGACCTACCTGATCTGCAATGAA 263
DB 192 GAAGGGCCGATTACCATCTCCAGAGACAGCGCAATTCAGAAACGCTGATCTGCAATGAA 251
QY 264 CAGCCTGAGAGCCGAGACACAGCGCTGTACTACTGTGCGAGAGATT 310
DB 252 CAGCCTGAGAGCCGAGACACAGCGCTGTATTAATCTGTGCGAGAGCTT 298

RESULT 17

US-09-000-088-3
Sequence 3, Application US/09000088
Patent No. 6146629

GENERAL INFORMATION:

APPLICANT: DAGAN, Shlomo
TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODY AGAINST HEPATITIS B VIRUS
FILE REFERENCE: DAGAN-1
CURRENT APPLICATION NUMBER: US/09/000,088
EARLIER FILING DATE: 1998-01-22
EARLIER APPLICATION NUMBER: PCT/IL97/00183
EARLIER FILING DATE: 1997-06-10
EARLIER APPLICATION NUMBER: IL96/118626
EARLIER FILING DATE: 1996-06-11
NUMBER OF SEQ ID NOS: 4
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 387
TYPE: DNA
ORGANISM: HUMAN
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(387)
US-09-000-088-3

Query Match 59.5%; Score 234; DB 3; Length 387;
Best Local Similarity 78.5%; Pred. No. 1.8e-63;
Matches 295; Conservative 0; Mismatches 75; Indels 6; Gaps 1;

QY 24 GGTGAGTCTGGGGGAGGCTGTCAAGCCTGGGGGGCTCCAGAGACTCTCCGTGTCACAC 83
DB 12 GGTGAGTCTGGGGGAGGCTGTGTTACAGCCTGGGGGGCTCCAGAGACTCTCCGTGTCACAC 71
QY 84 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCCGCCAGAGGTCCAGGAAGGG 143
DB 72 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCCGCCAGAGGTCCAGGAAGGG 131
QY 144 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATCTACGACAGCGCAGT 203
DB 132 ACTGAGTGGGTGAGCAATTAATTCATATATGAGAAATTTACTATAGAGACTCCGT 191
QY 204 GAAGGGCCGATTACCATCTCCAGAGACAGCGCAAGACCTACCTGATCTGCAATGAA 263

DB 192 GAAGGGCCGATTACCATCTCCAGAGACACTCCAGAAACGCTGATCTGCAATGAA 251

QY 264 CAGCCTGAGAGCCGAGACACAGCGCTGTACTGTGGAGAGATTAGATACAGTAA 323

DB 252 CAGCCTGAGAGACTGAGAGACAGCGCTGTACTGTGGAGAGATTAGATATTTTG 311

QY 324 TTTCCCTCCCTGGGTGGAG-----CGACGGTATGACGTCTGGGGCCAGGACAC 377

DB 312 GAGTGGTTCTTGGGCTGACGTAATACAGCAGGACGATGAGTCTGGGGCTTAGGACAC 371

QY 378 GGTCACTGCTCTCA 393
DB 372 GGTCACTGCTCTCA 387

RESULT 18

US-09-560-198A-3
Sequence 3, Application US/09560198A
Patent No. 6492497

GENERAL INFORMATION:

APPLICANT: Thompson, Julia E
APPLICANT: Leonard, Simon N
APPLICANT: Wilton, Alison J
APPLICANT: Braddock, Peta SH
APPLICANT: Du Fou, Sarah L
APPLICANT: Mc Cafferty, John G
APPLICANT: Conroy, Louise A
APPLICANT: Tempest, Philip R
TITLE OF INVENTION: Specific binding members for TGFbeta1
FILE REFERENCE: 2811/35620A
CURRENT APPLICATION NUMBER: US/09/560,198A
CURRENT FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: US 60/131,983
PRIOR FILING DATE: 1999-04-30
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3
LENGTH: 369
TYPE: DNA
ORGANISM: Homo sapiens
US-09-560-198A-3

Query Match 59.4%; Score 233.6; DB 4; Length 369;
Best Local Similarity 79.5%; Pred. No. 2.3e-63;
Matches 294; Conservative 0; Mismatches 64; Indels 12; Gaps 1;

QY 24 GGTGAGTCTGGGGGAGGCTGTCAAGCCTGGGGGGCTCCAGAGACTCTCCGTGTCACAC 83
DB 12 GGTGAGTCTGGGGGAGGCTGTGTTACAGCCTGGGGGGCTCCAGAGACTCTCCGTGTCACAC 71
QY 84 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCCGCCAGAGGTCCAGGAAGGG 143
DB 72 CTCTGATTCACCTTCAGTAGCTATAGCATGCACTGGGTCCGCCAGAGGTCCAGGAAGGA 131
QY 144 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATCTACGACAGCGCAGT 203
DB 132 GCTGAGTGGGTCTCATCTCATTAGTAATAGTAATCTTACATATCTACGACAGCGTCAAT 191
QY 204 GAAGGGCCGATTACCATCTCCAGAGACAGCGCAAGAACTACCTGATCTGCAATGAA 263
DB 192 GAAGGGCCGATTACCATCTCCAGAGACAGCGCAATTCAGAAACGCTGATCTGCAATGAA 251
QY 264 CAGCCTGAGAGCCGAGACACAGCGCTGTACTACTGTGGGAGAGATTAGATACAGTAA 323
DB 252 CAGCCTGAGAGCTGAGAGACAGCGCTGTACTACTGTGGGAGAGATTAGATATTTTG 311
QY 324 TTTCCCTCCCTGGGTGGAG-----GATACGAGACCCCAAGTACTCTGGGGCAAGGACCAAGGTCA 383
DB 312 CTAC-----GATACGAGACCCCAAGTACTCTGGGGCAAGGACCAAGGTCA 359
QY 384 CGTCTCTCA 393

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 24, 2003, 04:04:44 ; Search time 1825 Seconds
(without alignments)
536.093 Million cell updates/sec

Title: US-09-848-798a-97
Perfect score: 393
Sequence: 1 gaggtcagctcgtcagtc.....ccagctcagctcctca 393

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1678620 seqs, 1244745471 residues

Total number of hits satisfying chosen parameters: 3357240

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Published Applications_NA: *
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq: *
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq: *
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq: *
4: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq: *
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq: *
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq: *
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq: *
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq: *
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq: *
10: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq: *
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq: *
12: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq: *
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq: *
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq: *
15: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq: *
16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq: *
17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	393	100.0	393	11	US-09-848-798-97
2	363.6	92.5	381	11	US-09-848-798-96
3	272.2	69.3	311	9	US-09-864-761-31233
4	270.8	68.9	379	12	US-10-041-860-55
5	269.6	68.6	348	14	US-10-091-300-23
6	269.6	68.6	348	14	US-10-091-300-27
7	268	68.2	348	14	US-10-091-300-30
8	262.8	66.9	414	12	US-10-323-694-143
9	261.2	66.5	379	12	US-10-041-860-59
10	261.2	66.5	382	12	US-10-041-860-75
11	259.2	66.0	1413	14	US-10-153-382-16
12	258	65.6	379	12	US-10-041-860-67
13	250.4	63.7	520	10	US-09-844-684-10
14	250.4	63.7	520	14	US-10-040-244-10
15	248.8	63.3	375	14	US-10-173-317-1
16	248	63.1	407	11	US-09-918-995-16657

17	248	63.1	747	13	US-10-039-785-65	Sequence 65, Appl
18	247.6	63.0	527	10	US-09-964-824A-583	Sequence 583, App
19	247.6	63.0	527	10	US-09-954-456-1188	Sequence 1188, Ap
20	246.4	62.7	666	11	US-09-972-656-73	Sequence 73, Appl
21	245.6	62.5	4026	12	US-09-943-039-1	Sequence 1, Appl1
22	245.6	62.5	4027	12	US-09-969-748C-1	Sequence 1, Appl1
23	244.2	62.1	381	11	US-09-848-798-182	Sequence 182, App
24	244.2	62.1	739	13	US-10-027-633-125404	Sequence 125404,
25	244.2	62.1	739	13	US-10-027-633-125405	Sequence 125405,
26	243.6	62.0	378	11	US-09-848-798-195	Sequence 195, App
27	242	61.6	367	12	US-10-330-613-31	Sequence 31, Appl
28	242	61.6	367	12	US-10-330-530-31	Sequence 31, Appl
29	242	61.6	367	11	US-09-848-798-95	Sequence 95, Appl
30	239.6	61.0	630	10	US-09-844-684-14	Sequence 14, Appl
31	239.6	61.0	630	14	US-10-040-244-14	Sequence 14, Appl
32	239.2	60.9	738	12	US-10-120-414-85	Sequence 85, Appl
33	238.8	60.8	378	11	US-09-848-798-94	Sequence 94, Appl
34	238.8	60.8	378	11	US-09-848-798-196	Sequence 196, App
35	238.4	60.7	1427	13	US-10-066-895-25	Sequence 25, Appl
36	238	60.6	580	10	US-09-844-684-12	Sequence 12, Appl
37	238	60.6	580	14	US-10-040-244-12	Sequence 12, Appl
38	237.2	60.4	402	9	US-09-811-737-7	Sequence 7, Appl1
39	237.2	60.4	788	9	US-09-811-737-24	Sequence 24, Appl
40	237.2	60.4	1708	10	US-09-859-053-31	Sequence 31, Appl
41	236.8	60.3	369	14	US-10-243-265-1	Sequence 1, Appl1
42	236.8	60.3	1427	13	US-10-066-895-20	Sequence 20, Appl
43	236.4	60.2	411	10	US-09-423-800-58	Sequence 58, Appl
44	236.4	60.2	411	12	US-10-337-981-58	Sequence 58, Appl
45	236.4	60.2	411	14	US-10-182-018-58	Sequence 58, Appl
46	236.4	60.2	411	14	US-10-169-003-58	Sequence 58, Appl
47	235.6	59.9	939	12	US-10-288-917-7	Sequence 7, Appl1
48	235.6	59.9	939	13	US-10-052-798-7	Sequence 7, Appl1
49	235.2	59.8	1427	13	US-10-066-895-27	Sequence 27, Appl
50	234	59.5	1673	10	US-09-859-053-35	Sequence 35, Appl
51	233.6	59.4	369	14	US-10-243-265-3	Sequence 3, Appl1
52	233.4	59.4	1430	12	US-10-225-108A-1	Sequence 1, Appl1
53	233.4	59.4	6284	13	US-10-066-895-14	Sequence 14, Appl
54	233.4	59.4	6284	13	US-10-066-895-14	Sequence 14, Appl
55	233.2	59.3	672	11	US-09-972-656-67	Sequence 67, Appl
56	233	59.3	1603	9	US-09-822-849A-109	Sequence 109, App
57	232.4	59.1	381	11	US-09-848-798-87	Sequence 87, Appl
58	232.4	59.1	381	11	US-09-848-798-88	Sequence 88, Appl
59	231.6	58.9	393	11	US-09-988-115A-52	Sequence 52, Appl
60	231.2	58.8	375	11	US-09-848-798-183	Sequence 183, App

ALIGNMENTS

RESULT 1
US-09-848-798-97
; Sequence 97, Application US/09848798
; Publication No. US20030040605A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF
; FILE REFERENCE: 09596-4202
; CURRENT APPLICATION NUMBER: US/09/848, 798
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240, 274
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028, 550
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-11
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 97
; LENGTH: 393
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E03
US-09-848-798-97

Query Match	100.0%	Score 393;	DB 11;	Length 393;
Best Local Similarity	100.0%	Pred. No. 6.2e-121;		
Matches 393;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	GAGGTGCACGCTCTGAGTCGTCGAGGTGGGTGGAGTCGTGGGGGGGCGCCGTGTCAACGCTGGGGGG	60
QY	1	GAGGTGCACGCTCTGAGTCGTCGAGGTGGGTGGAGTCGTGGGGGGGCGCCGTGTCAACGCTGGGGGG	60
Db	1	GAGGTGCACGCTCTGAGTCGTCGAGGTGGGTGGAGTCGTGGGGGGGCGCCGTGTCAACGCTGGGGGG	60
QY	61	TGCGTGAGACGTCCTCTGTGGAGACGCTGTGGAGGATTCACGCTTCACTACTATAGCATGCACCTGG	120
QY	61	TGCGTGAGACGTCCTCTGTGGAGACGCTGTGGAGGATTCACGCTTCACTACTATAGCATGCACCTGG	120
Db	61	TGCGTGAGACGTCCTCTGTGGAGACGCTGTGGAGGATTCACGCTTCACTACTATAGCATGCACCTGG	120
QY	121	GTCCCGCAGAGGTGCAGAGGAGGGGCTGGAGTGGGTGTCACTTCCTAGTAACTAGTAATACT	180
QY	121	GTCCCGCAGAGGTGCAGAGGAGGGGCTGGAGTGGGTGTCACTTCCTAGTAACTAGTAATACT	180
Db	121	GTCCCGCAGAGGTGCAGAGGAGGGGCTGGAGTGGGTGTCACTTCCTAGTAACTAGTAATACT	180
QY	181	TTCATTTACTATACGCAGACGCGATGAGGGCCGATTACACATCTCCAGAGCAACGCCAAG	240
QY	181	TTCATTTACTATACGCAGACGCGATGAGGGCCGATTACACATCTCCAGAGCAACGCCAAG	240
Db	181	TTCATTTACTATACGCAGACGCGATGAGGGCCGATTACACATCTCCAGAGCAACGCCAAG	240
QY	241	AACCTACGTATCTTCGAAATGAACAGCCTGTGAGGCCGAGCACAGCGGTGTGTACTACTGT	300
QY	241	AACCTACGTATCTTCGAAATGAACAGCCTGTGAGGCCGAGCACAGCGGTGTGTACTACTGT	300
Db	241	AACCTACGTATCTTCGAAATGAACAGCCTGTGAGGCCGAGCACAGCGGTGTGTACTACTGT	300
QY	301	GGCAGAGATTTCTAGATACAGTAAATTTCTCCGTTTGGATTCCGAGCGACGGTATAGGAGCTC	360
QY	301	GGCAGAGATTTCTAGATACAGTAAATTTCTCCGTTTGGATTCCGAGCGACGGTATAGGAGCTC	360
Db	301	GGCAGAGATTTCTAGATACAGTAAATTTCTCCGTTTGGATTCCGAGCGACGGTATAGGAGCTC	360
QY	361	TGGGGGCCAAGGAGCACCGTCATCGTCTCTCA	393
QY	361	TGGGGGCCAAGGAGCACCGTCATCGTCTCTCA	393
Db	361	TGGGGGCCAAGGAGCACCGTCATCGTCTCTCA	393

RESULT 2

US-09-848-798-96
; Sequence 96, Application US/09848798
; Publication No. US20030040605A1

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; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: Rn(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; TITLE OF INVENTION: SORTING METHOD FOR PRODUCTION THEREOF

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1 FILE REFERENCE: 09596-4202
2 CURRENT APPLICATION NUMBER: US/09/848.798
3 PRIOR FILING DATE: 2001-05-04
4 PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274
5 PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29
6 PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
7 PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-31
8 NUMBER OF SEQ ID NOS: 224
9 SOFTWARE: PatentIn Ver. 2.0
10 SEQ ID NO 96
11 LENGTH: 381
12 TYPE: DNA
13 ORGANISM: Homo sapiens
14 FEATURE:
15 OTHER INFORMATION: anti-Rh(D) chain E01
16 IS-09-848-798-96

```

Query Match	92.5%	Score 363.6;	DB 11;	Length 381;
Best Local Similarity	98.9%	Pred. No. 4e-111;		
Matches 366; Conservative	0;	Mismatches 4;	Indels 0;	Gaps 0

[illegible]

Db	132	GCCTGAGAGTGGGGTCTCATCCATTAGTAATAAGTAATACTTACATATATACATAAGCAGCCAGT	191
QY	204	GAAGGGCCGATTTTACCATTCTCCAGAGACAAAGCCCAAGAACATCAGTATTTGCAAAATGAA	265
Db	192	GAAGGGCCGATTTTACCATTCTCCAGAGACAAAGCCCAAGAACATCAGTATTTGCAAAATGAA	251
QY	264	CAGCCTTGAAAGCCCGAGACACAGCGCTGTGTACTACTGTGCGAGAGATTTCTAATACAGTAA	322
Db	252	CAGCCTTGAAAGCCCGAGAGACACAGCGCTGTGTACTACTGTGCGAGAGATTTCTAATACAGTAA	311
QY	324	TTTTCTCGTGTGGGTTTGGAGCGACGGTATGAGCGTCTGGGGCCCAAGGACACAGCGTCAT	383
Db	312	TTTTCTCGTGTGGGTTTGGAGCGACGGTATGAGCGTCTGGGGCCCAAGGACACAGCGTCAT	371
QY	384	CGTCTCTCTCA	393
Db	372	CGTCTCTCTCA	381

RESULT 3

US-09-864-761-31233
; Sequence 31233, Application US/09864761
; Patent No. US20020048763A1

```

; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.

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; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, wensheng
; TITLE OF INVENTION: HUMAN GENOME
```

TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
 FILE REFERENCE: Aeomica-X-1
 CURRENT APPLICATION NUMBER: US/09/864,761

;; CURRENT FILING DATE: 2001-05-23
;; PRIOR APPLICATION NUMBER: US 60/180,312
;; PRIOR FILING DATE: 2000-02-04

;; PRIOR APPLICATION NUMBER: US 60/207,456
;; PRIOR FILING DATE: 2000-05-26
;; PRIOR APPLICATION NUMBER: US 09/632,366

;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: GB 24263.6
;; PRIOR FILING DATE: 2000-10-04

; PRIOR APPLICATION NUMBER: US 60/236,359
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/0066
 ; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/0066
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/0066

; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/0066
 ; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/0066
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/0066

PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/0066
PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667

PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21

PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203

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; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1

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; SEQ ID NO 31233
; LENGTH: 311

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TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AB019439.1
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.42
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.51
OTHER INFORMATION: EST_HUMAN HIT: AM403220.1, EVALUOE 0.00e+00
OTHER INFORMATION: NT HIT: L29155.1, EVALUOE 0.00e+00
OTHER INFORMATION: SWISSPROT HIT: P01764, EVALUOE 3.00e-43
US-09-864-761-31233

Query Match 69.3%; Score 272.2; DB 9; Length 311;
Best Local Similarity 97.2%; Pred. No. 1.2e-80;
Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGGCGCTGAGACTCTCTGTGCAGC 83
DB 23 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGGCGCTGAGACTCTCTGTGCAGC 82
OY 84 CTCGTGATTACCTTCATAGCTATAGCATGCACTGGTCCGCGCAGGGTCCAGGAAAGG 143
DB 83 CTCGTGATTACCTTCATAGCTATAGCATGCACTGGTCCGCGCAGGGTCCAGGAAAGG 142
OY 144 GCTGAGTGGTCTTCATCTCATTTAGTATGTAATCTTACATATACGACGACGAGT 203
DB 143 GCTGAGTGGTCTTCATCTCATTTAGTATGTAATCTTACATATACGACGAGTCACT 202
OY 204 GAAGGGCCGATTCCACATCTCCAGACAGACGCCAAGAACCTCTGTGCAATGAA 263
DB 203 GAAGGGCCGATTCCACATCTCCAGACAGACGCCAAGAACCTCTGTGCAATGAA 262
OY 264 CAGCTGAGAGCCGACGACAGCGCTGTGTACTACTGTGCGAGAGA 308
DB 263 CAGCTGAGAGCCGACGACAGCGCTGTGTACTACTGTGCGAGAGA 307

RESULT 4

US-10-041-860-55
Sequence 55, Application US/10041860
Publication No. US20030157109A1
GENERAL INFORMATION:
APPLICANT: Corvalan, Jose R.F.
APPLICANT: Jia, Xiao-Chi
APPLICANT: Feng, Xiao
APPLICANT: Yang, Xiao-Dong
APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadi
APPLICANT: Weber, Richard
APPLICANT: Bezabeh, Binyam
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES
FILE REFERENCE: ABGENIX.051A
CURRENT APPLICATION NUMBER: US/10/041.860
CURRENT FILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 377
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 55
LENGTH: 379
TYPE: DNA
ORGANISM: homo sapiens
US-10-041-860-55

Query Match 68.9%; Score 270.8; DB 12; Length 379;
Best Local Similarity 85.1%; Pred. No. 3.8e-80;
Matches 315; Conservative 0; Mismatches 52; Indels 3; Gaps 1;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGGCGCTGAGACTCTCTGTGCAGC 83
DB 12 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGGCGCTGAGACTCTCTGTGCAGC 71
OY 84 CTCGTGATTACCTTCATAGCTATAGCATGCACTGGTCCGCGCAGGGTCCAGGAAAGG 143
DB 72 CTCGTGATTACCTTCATAGCTATAGCATGCACTGGTCCGCGCAGGGTCCAGGAAAGG 131

OY 144 GCTGAGTGGGTCTTCATCTCATTTAGTATGTAATCTTACATATACGACGACGAGT 203
DB 132 GCTGAGTGGGTCTTCATCTCATTTAGTATGTAATCTTACATATACGACGAGTCACT 191
OY 204 GAAGGGCCGATTCCACATCTCCAGACAGACGCCAAGAACCTCTGTGCAATGAA 263
DB 192 GAAGGGCCGATTCCACATCTCCAGACAGACGCCAAGAACCTCTGTGCAATGAA 251
OY 264 CAGCTGAGAGCCGACGACAGCGCTGTGTACTACTGTGCGAGAGATTCTAGATGAA 323
DB 252 CAGCTGAGAGCCGACGACAGCGCTGTGTACTACTGTGCGAGAGATTCTAGATGAA 308
OY 324 TTTCTCCGTTGGGTTCGAGAGCGATGAGAGCTGTGGGCGCCAAAGGACACGCTCAT 383
DB 309 GTTTGGGGGAATTATACGCTCTGTTACTTTGACTACTGAGGCGCAGGAAACCTGTGTC 368
OY 384 GGTCTCTCA 393
DB 369 GGTCTCTCA 378

RESULT 5

US-10-091-300-23
Sequence 23, Application US/10091300
Publication No. US20030108545A1
GENERAL INFORMATION:
APPLICANT: Rockwell, Patricia
APPLICANT: Goldstein, Neil I.
TITLE OF INVENTION: Combination Methods of Inhibiting Tumor Growth with a Vascular
FILE REFERENCE: 11245/46211
CURRENT APPLICATION NUMBER: US/10/091.300
CURRENT FILING DATE: 2002-03-04
NUMBER OF SEQ ID NOS: 85
SOFTWARE: WordPerfect 8.0 for Windows
SEQ ID NO 23
LENGTH: 348
TYPE: DNA
ORGANISM: Human
US-10-091-300-23

Query Match 68.6%; Score 269.6; DB 14; Length 348;
Best Local Similarity 96.8%; Pred. No. 9.2e-80;
Matches 275; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGTCCCTGAGACTCTCTGTGCAGC 83
DB 12 GGTGAGTCTGGGGAGGCGCTGTCACGCTGGGGGGTCCCTGAGACTCTCTGTGCAGC 71
OY 84 CTCGTGATTACCTTCATAGCTATAGCATGCACTGGTCCGCGCAGGGTCCAGGAAAGG 143
DB 72 CTCGTGATTACCTTCATAGCTATAGCATGCACTGGTCCGCGCAGGGTCCAGGAAAGG 131
OY 144 GCTGAGTGGGTCTTCATCTCATTTAGTATGTAATCTTACATATACGACGACGAGT 203
DB 132 GCTGAGTGGGTCTTCATCTCATTTAGTATGTAATCTTACATATACGACGAGTCACT 191
OY 204 GAAGGGCCGATTCCACATCTCCAGACAGACGCCAAGAACCTCTGTGCAATGAA 263
DB 192 GAAGGGCCGATTCCACATCTCCAGACAGACGCCAAGAACCTCTGTGCAATGAA 251
OY 264 CAGCTGAGAGCCGACGACAGCGCTGTGTACTACTGTGCGAGAGATTCTAGATGAA 307
DB 252 CAGCTGAGAGCCGACGACAGCGCTGTGTACTACTGTGCGAGAGATTCTAGATGAA 295

RESULT 6

US-10-091-300-27
Sequence 27, Application US/10091300
Publication No. US20030108545A1
GENERAL INFORMATION:
APPLICANT: Rockwell, Patricia

```

: APPLICANT: Goldstein, Neil I.
: TITLE OF INVENTION: Combination Methods of Inhibiting Tumor Growth With a Vascular
: TITLE OF INVENTION: Endothelial Growth Factor Receptor Antagonist
: FILE REFERENCE: 11245/46211
: CURRENT APPLICATION NUMBER: US/10/091,300
: CURRENT FILING DATE: 2002-03-04
: NUMBER OF SEQ ID NOS: 85
: SOFTWARE: WordPerfect 8.0 for windows
: SEQ ID NO 27
:
: LENGTH: 348
:
: TYPE: DNA
: ORGANISM: Human
: US-10-091-300-27

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Query Match	68.6%;	Score 269.6;	DB 14;	Length 348;
Best Local Similarity	96.8%;	Pred. No. 9.2e-80;		
Matches 275; Conservative	0;	Mismatches 9;	Indels 0;	Gaps 0;

[illegible]

RESULT 7
 US-10-091-300-30
 : Sequence 30, Application US/10091300
 : Publication No. US20030108545A1
 : GENERAL INFORMATION:
 : APPLICANT: Rockwell, Patricia
 : TITLE OF INVENTION: Combining Methods of Inhibiting Tumor Growth With a Vascular
 : TITLE OF INVENTION: Combination Growth Factor Receptor Antagonist
 : FILE REFERENCE: 11245/46211
 : CURRENT APPLICATION NUMBER: US/10/091.300
 : CURRENT FILING DATE: 2002-03-04
 : NUMBER OF SEQ ID NOS: 85
 : SOFTWARE: wordperfect 8.0 for windows
 : SEQ ID NO 30
 : LENGTH: 348
 : TYPE: DNA
 : ORGANISM: Human
 : US-10-091-300-30

Query Match	68.2%	Score 268;	DB 14;	Length 348;
Best Local Similarity	96.5%;	Pred. No. 3.2e-79;		
Matches 274;	Conservative 0;	Mismatches 10;	Indels 0;	Gaps 0;

QY	24	GGTGGAGTCTGGGGGAGGCGCTGTGCACGCCCGGGGGGCTCCCTAGACTCTCCCTGTACAC	83
YY			
Db	12	GGTGCAGTCTGGGGGAGGCGCTGTGCACGCCCGGGGGCTCCCTAGACTCTCCCTGTACAC	71
QY	84	CTCTGGATTCACTTCACAGTACCTATAGACATCACTGGGTCCGCGAAGGCTCCAGGAAAGG	143
YY			
Db	72	CTCTGGATTCACTTCACAGTACCTATAGACATCACTGGGTCCGCGAAGGCTCCAGGAAAGG	131
QY	144	GCTGGAGTGGGCTCATCTAGTAATAGTAATCACTATCTATCTAGCAGACACCACT	203

Db	132	GCCTGAGTGGGTCTCATCCATTAGTAGTAGTAGTAGTACCTATATACACGAGACGTACGT	131
Oy	204	GAAGGGCCGATTCACATCTCCAGAGACAAAGCCGAATCCTAGTATCTGCAAAAGAA	263
Db	192	GAAGGGCCATTCATCCATTCTCCAGAGAACAGCCCAAGATCTCATCTGTGTGCAAATGAA	251
Oy	264	CAGCCTGAGAGCCGAGACACAGCGCTGTGTACTACTGTGTGCGAGAG	307
Db	252	CAGCCTGAGAGCCGAGAGACACGCGCTGTGTATTACTGTGTCGAGAG	295

RESULT 8
US-10-325-694-143
; Sequence 143, Application US/10325694
; Publication No. US20030148463A1
Journal Information

```

? TITLE OF INVENTION: NOVEL METHOD FOR THE PRODUCTION OF ANTI-HUMAN ANTIGEN
?
? TITLE OF INVENTION: RECEPTORS AND USES THEREOF
?
? FILE REFERENCE: 38164000
?
? CURRENT APPLICATION NUMBER: US/10/325,694
?
? CURRENT FILING DATE: 2002-12-19
?
? PRIOR APPLICATION NUMBER: US/09/403,107
?
? PRIOR FILING DATE: 1999-10-14
?
? NUMBER OF SEQ ID NOS: 152
?
? SOFTWARE: PatentIn Ver. 2.1
?
? SEQ ID NO 143
?
? LENGTH: 414
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? TYPE: DNA
?
? ORGANISM: HUMAN
?
? OS-10-325-694-143

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Query Match	66.9%	Score 262.8;	DB 12;	Length 414;
- Best Local Similarity	81.9%	Pred. No. 1.8e-77;		
- Matches 303; Conservative	0;	Mismatches 67;	Indels 0;	Gaps 0

QY	24	GGGGAGCTGTGGGGGAGAGCGCTGTCAAACCTGTGGGGGGTCCCTGAGACATCTCCTGTGAGC	83
Db	12	GCTCGAGTCTGGGGGAGAGCGCTGTCCAGCTCGGAGAGTCCCTGAGACTCTCTTGTGAGC	71
QY	84	CCTCGATTTACACTTCCAGTACGTATAGATAGATGACAGGGTCCGGCCAGAGGTCCAGGAAAGG	143
Db	72	CTCTGGATTTACACTTCCAGTACGTATAGCATGCACTCGGCTCCGCAAGCTCCAGGCAAGG	131
QY	144	GCTGGAGTGGGTCTCATCCATTAGTAAATAGTAAATACTTACATATACATACGACAGCGACT	203
Db	132	GCTGGAGTGGGTGGGCGATTATATCTCAATGATGAGAGTATATAAATACATATGAGAGCTCCGT	191
QY	204	GAAAGGCGGATTCACCATCTCCAGAGACAAAGCCCAAGACTCTGATCTGCAAAATGAA	263
Db	192	GAAAGGCGGATTCACCATCTCCAGAGAACAAATTCCAAAGAACAGCGTATCTGGCAAAATGAA	251
QY	264	CAGCCTGAGAGCCGAGACACAGCGCTGTCTACTCTGTGCGAGAGATTCCTAGATACAGTAA	323
Db	252	CAGCCTGAGAGCTGTGAGAGACAGCGCTGTATTAATCTCTCGAAAAATATGTGGGTGGGGCAG	311
QY	324	TTTCCTCCCTTGGGTTCCGAGGAGCAGGATGAGAGCTGTGGGGCCAAAGGAGACACAGTCAT	383
Db	312	TGGCTGTGAGAACCCCTACTACTACTACGATGATGAGAGCTGTGGGGCCAAAGGAGACACAGTCAC	371
QY	384	CGTCTCTCTCA	393
Db	372	CGTCTCTCTCA	381

RESULT 9
US-10-041-860-59
; Sequence 59, Application US/10041860
; Publication No. US20030157109A1
; GENERAL INFORMATION:
; APPLICANT: Corvahan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi

APPLICANT: Feng, Xiao
APPLICANT: Yang, Xiao-Dong
APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadl
APPLICANT: Weber, Richard
APPLICANT: Bezabeh, Binyam
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFR AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: ABGENIX.051A
CURRENT APPLICATION NUMBER: US/10/041,860
CURRENT FILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 377
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 59
LENGTH: 379
TYPE: DNA
ORGANISM: homo sapiens
US-10-041-860-59

Query Match 66.5%; Score 261.2; DB 12; Length 379;
Best Local Similarity 83.5%; Pred. No. 6.1e-77;
Matches 309; Conservative 0; Mismatches 58; Indels 3; Gaps 1;

QY 24 GGTGAGTCTGCGGAGGCGCTGTCACGCTGGGGGTCCTGAGACTCTCTGTGCAGC 83
DB 12 GGTGAGTCTGCGGAGGCGCTGTCACGCTGGGGGTCCTGAGACTCTCTGTGCAGC 71
QY 84 CTCGATTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCCAGGAGG 143
DB 72 GCTGAGTTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCCAGGAGG 131
QY 144 GCTGAGTGGGTCTCATCTATAGTAAATAGTAAATAGTAAATAGTAAATAGTAA 203
DB 132 GCTGAGTGGGTCTCATCTATAGTAAATAGTAAATAGTAAATAGTAAATAGTAA 191
QY 204 GAAGGCGCGATTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCC 263
DB 192 GAAGGCGCGATTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCC 251
QY 264 CAGCTGAGAGCGCGAGCGAGCGGTGTACTAGTACGAGAGTCTTCAATNAGTAA 323
DB 252 CAGCTGAGAGCGCGAGCGAGCGGTGTACTAGTACGAGAGTCTTCAATNAGTAA 311
QY 324 TTTCCTCCGTTGGGTTCGAGCGAGCGGTGTACTAGTACGAGAGTCTTCAATN 383
DB 312 T---GCTGTTACTACTAGTACGAGCGGTGTACTAGTACGAGAGTCTTCAATN 368
QY 384 GGTCTCTCA 393
DB 369 GGTCTCTCA 378

RESULT 10
US-10-041-860-75
Sequence 75, Application US/10041860
Publication No. US20030157109A1
GENERAL INFORMATION:
APPLICANT: Corvalan, Jose R.F.
APPLICANT: Jia, Xiao-Chi
APPLICANT: Feng, Xiao
APPLICANT: Yang, Xiao-Dong
APPLICANT: Chen, Francine
APPLICANT: Gazit, Gadl
APPLICANT: Weber, Richard
APPLICANT: Bezabeh, Binyam
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFR AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: ABGENIX.051A
CURRENT APPLICATION NUMBER: US/10/041,860
CURRENT FILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 377
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 75

LENGTH: 382
TYPE: DNA
ORGANISM: homo sapiens
US-10-041-860-75

Query Match 66.5%; Score 261.2; DB 12; Length 382;
Best Local Similarity 81.6%; Pred. No. 6.1e-77;
Matches 302; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGCGGAGGCGCTGTCACGCTGGGGGTCCTGAGACTCTCTGTGCAGC 83
DB 12 GGTGAGTCTGCGGAGGCGCTGTCACGCTGGGGGTCCTGAGACTCTCTGTGCAGC 71
QY 84 CTCGATTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCCAGGAGG 143
DB 72 GCTGAGTTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCCAGGAGG 131
QY 144 GCTGAGTGGGTCTCATCTATAGTAAATAGTAAATAGTAAATAGTAAATAGTAA 203
DB 132 GCTGAGTGGGTCTCATCTATAGTAAATAGTAAATAGTAAATAGTAAATAGTAA 191
QY 204 GAAGGCGCGATTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCC 263
DB 192 GAAGGCGCGATTCACCTTCAGTACCTATAGCATGACAGCGGGTCCGAGGGTCC 251
QY 264 CAGCTGAGAGCGCGAGCGAGCGGTGTACTAGTACGAGAGTCTTCAATNAGTAA 323
DB 252 CAGCTGAGAGCGCGAGCGAGCGGTGTACTAGTACGAGAGTCTTCAATNAGTAA 311
QY 324 TTTCCTCCGTTGGGTTCGAGCGAGCGGTGTACTAGTACGAGAGTCTTCAATN 383
DB 312 TAGTATATCTCTACTACTAGTACGAGAGTCTTCAATNAGTAA 371
QY 384 GGTCTCTCA 393
DB 372 GGTCTCTCA 381

RESULT 11
US-10-153-382-16
Sequence 16, Application US/10153382
Publication No. US20030086930A1
GENERAL INFORMATION:
APPLICANT: PEIZER PRODUCTS INC.
TITLE OF INVENTION: USES OF ANTI-CTLA-4 ANTIBODIES
FILE REFERENCE: PC23019A
CURRENT FILING DATE: 2002-05-22
CURRENT APPLICATION NUMBER: 60/293042
PRIOR FILING DATE: 2001-05-23
NUMBER OF SEQ ID NOS: 39
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
LENGTH: 1413
TYPE: DNA
ORGANISM: Homo sapiens
US-10-153-382-16

Query Match 66.0%; Score 259.2; DB 14; Length 1413;
Best Local Similarity 81.0%; Pred. No. 4.6e-76;
Matches 316; Conservative 0; Mismatches 68; Indels 6; Gaps 1;

QY 4 GTGAGTCTGCGGAGGCGCTGTCACGCTGGGGGTCCTGAGACTCTCTGTGCAGC 63
DB 49 GTGAGTCTGCGGAGGCGCTGTCACGCTGGGGGTCCTGAGACTCTCTGTGCAGC 108
QY 64 CTGAGACTCTCTGTGCAGGCGCTGATTCACCTTCAGTACCTATAGCATGACAGT 123
DB 109 CTGAGACTCTCTGTGCAGGCGCTGATTCACCTTCAGTACCTATAGCATGACAGT 168
QY 124 CCGCAGGCTCCAGGAGGAGGCGCTGAGTGGGTCTCATCTATAGTAAATAGTAA 183
DB 169 CCGCAGGCTCCAGGAGGAGGCGCTGAGTGGGTCTCATCTATAGTAAATAGTAA 228

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Page 6

QY	184	ATTATTCAGCAGACGACCATGAAAGGCGCGATTACATCTCTCAGAGCAACCGCCAAAC	243
Db	229	AAATACTATGACAGACTCCGTGAAGGCCGATTACCATCTCTCAGAGCAATTTCCAAAC	288
QY	244	TCACCTATCTCCAAATGAAAGCCTGAGACCGCAGACACAGCGTGTGTACTACTGTGCG	303
Db	289	ACCGTGTATCTGCAAATGACACGCGTGGAGGCGAGGACACGCGCTGTGTATTACTGTGCG	348
QY	304	ACGAGATTCTAGATACAGTAAATTTCTCCGTTGGGTTGCGAGGACGGATATGACGCTGCG	363
Db	349	ACGAGATCTCCAGGGGAGCTA-----CCCTTACTACTACTACTACGGATATGACGCTGTGG	402
QY	364	GGCCAAAGGACACAGCGTCACTGCTCTCTCA	393
Db	403	GGCCAAAGGACACAGCGTCACTGCTCTCTCA	432

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US-10-041-860-67
RESULT 12
US-10-041-860-67
Sequence 67, Application US/10/041860
Publication No. US20030157109A1
GENERAL INFORMATION:
APPLICANT: Corvelan, Jose R.F.
APPLICANT: Jia, Xiao-Chi
APPLICANT: Peng, Xiao
APPLICANT: Peng, Xiao-Dong
APPLICANT: Chen, Francine
APPLICANT: Gaziz, Gadil
APPLICANT: Webber, Richard
APPLICANT: Bezabeh, Biyam
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFR AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: AGENZIA_051A
CURRENT APPLICATION NUMBER: US/10/041,860
CURRENT FILING DATE: 2002-01-07
NUMBER OF SEQ ID NOS: 377
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 67
LENGTH: 379
TYPE: DNA
ORGANISM: homo sapiens
US-10-041-860-67

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Query Match	65.68;	Score 258;	DB 12;	Length 379;
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Best Local Similarity 83.0%; Pred. No. 7,1e-76;
Matches 307; Conservative 0; Mismatches 60; Indels 3; Gaps 1.

QY	2	GGGAGAGTGTGGGGGGGCGCTGGTCAACCTGGGGGGGGCTGTGAGACTCTCTGTGAGC	83
Db	12	GGGAGAGTGTGGGGGGGCGCTGCTCAGCCTGGGAGGTCCTTGAGACTCTCTGTGAGC	71
QY	84	CTGTGATTCACCTTCAGTAGTATAGAGATCAGTGGGTCCGGAGGCTCCAGGAAAGG	143
Db	72	GTCGTGATTCAGTTTCAGTACGTATAGCGATGCACTGGTCCGCGAGGCTCCAGGAAAGG	131
QY	144	GGCGAGTGGGCTCATCTCATTAGTAATAGTAATTAATTACTATTAACGACAGCGACT	203
Db	132	GCTGGAGTGGGGGCGGATATATGTATGATGGAATAGTAATTAATTAATCTATGACGCTCGT	191
QY	204	GAAGGGCGCATTCACCATCTCCAGAGACAGCCAGCAACTCTGTATCTGCAAATGAA	263
Db	192	GAAGGGCGCATTCACCATCTCCAGAGACAAATTCCAAGAACGCGTGTATCTGCAAATGAA	251
QY	264	CAGCCTGAGAGCCGAGCACACGCGTGTACTACTGTGTCGAGAGATTCCTAGATACAGTAA	323
Db	252	CAGCCTGAGAGCCGAGAGCACACGCGTGTATATTATTTGCGAGATACAGGAAATACAGTAA	311
QY	324	TTTCCCTCCCTTGGGTTTCGGAGGAGCGATGTGAGCTGTGGGCGCCAAAGGAGCACAGGTCAT	383
Db	312	TGTATACGTCCT---ACTACGACTACAGGTATGTGAGCTGTGGGCGCCAAAGGAGCACAGGTCAC	368
QY	384	CGTCTCTCTCA	393

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Query Match	63.7%; Score 250.4; DB 10; Length 520;
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Best Local Similarity 81.9%; Pred. NO. 2. (e-/s);
Matches 303; Conservative 0; Mismatches 61; Indels 6; Gaps 1.

24 GGTGGAGTCTGGGGGAGGCCCTGGTCAAGCCCTGGGGGGTCCCTGAGACTCTCTGTGCAAG

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

[illegible]

14 GCTGAGTGGTCTCATCCATTAGTATAGTAACTTACATATACTACGAGACGCGAG

Db 220 GCTGGTGGGCTCACGATTAATAGTATGGAGTAGCACCACTACGGACTCCG

204 GAAGGCCGATTCACCATCTCCAGAGACAACGCCAAGAACTCACTGTATCTGCAATG

Db 280 GAAGGCCGATTCAACCATCTCCAGAGACAACGCCAAGAACACGCTGTATCTGCAAAATG

264 CAGCCTGAGAGCCGAGCACCAGGCTGTGTACTACTGTGCGAGAGATCTAGATACAGT

2025-01-27 10:00:00

[illegible]

384 393

Db 454 CGTCTCCTCA 463

US-10-040-244-10

Publication No. US200300059427A1

GENERAL INFORMATION:

APPLICANT: AIRIN BEER KABOSHINI AALISHA
APPLICANT: FORCE, WALKER F.

APPLICANT: MIKAYAMA, TOSHIEUMI

FILE REFERENCE: 021286/0272501
; CURRENT ADDITION NUMBER: 15/10/000 244

; CURRENT FILING DATE: 2002-06-17
 ; PRIOR APPLICATION NUMBER: 60/200,601

FULLY
FURNISHED.
\$600

;; PRIOR APPLICATION NUMBER: PCT/US01/13672
;; PRIOR FILING DATE: 2001-04-27
;; PRIOR APPLICATION NUMBER: 09/844,684
;; PRIOR FILING DATE: 2001-04-27
;; NUMBER OF SEQ ID NOS: 17
;; SOFTWARE: PatentIn Ver. 3.0
;; SEQ ID NO 10
;; LENGTH: 520
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-10-040-244-10

Query Match 63.7%; Score 250.4; DB 14; Length 520;
Best Local Similarity 81.9%; Pred. No. 2.7e-73;
Matches 303; Conservative 0; Mismatches 61; Indels 6; Gaps 1;

QY 24 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 83
DB 100 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 159
QY 84 CTCGTGATTCACTTCACTAGTATGATGACGACGCTGGGCGCCAGGCTCCAGGGAAGG 143
DB 160 CTCGTGATTCACTTCACTAGTATGATGACGACGCTGGGCGCCAGGCTCCAGGGAAGG 219
QY 144 GCTGAGTGGGTCTCATCTATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAG 203
DB 220 GCTGAGTGGGTCTCATCTATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAG 279
QY 204 GAAGGGCGGATTTCACATCTCCAGAGACAGCCCAAGACTCTGTATCTGCAAAATGAA 263
DB 280 GAAGGGCGGATTTCACATCTCCAGAGACAGCCCAAGACTCTGTATCTGCAAAATGAA 339
QY 264 CAGCCTGAGAGCCGAGACAGCGCTGTACTAGTCCGAGATTCAGATAGAGTAA 323
DB 340 CAGTCTGAGAGCCGAGACAGCGCTGTACTAGTCCGAGATTCAGATAGAGTAA 398
QY 324 TTTCCTCCGTGGTTCGAGAGCAGGTATGAGCTCTGGGGCCCAAGGAGACACGCTCAT 383
DB 399 -----TCGGGGAGTTATCTACTACGTATGAGAGCTCTGGGGCCCAAGGAGACACGCTCAC 453
QY 384 CGTCTCTCA 393
DB 454 CGTCTCTCA 463

RESULT 15

US-10-172-317-1
;; Sequence 1, Application US/10172317
;; Publication No. US20030091561A1
;; GENERAL INFORMATION:
;; APPLICANT: van de Wink, Jan G. J.
;; APPLICANT: van Dijk, Marcus A.
;; APPLICANT: Halk, Edward
;; APPLICANT: Gerltzen, Arnout F.
;; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO
;; TITLE OF INVENTION: EPIDERMAL GROWTH FACTOR RECEPTOR (EGFR)
;; FILE REFERENCE: GMT-020
;; CURRENT APPLICATION NUMBER: US/10/172,317
;; PRIOR FILING DATE: 2002-06-13
;; PRIOR APPLICATION NUMBER: US 60/298,172
;; NUMBER OF SEQ ID NOS: 4
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 1
;; LENGTH: 375
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-10-172-317-1

Query Match 63.3%; Score 248.8; DB 14; Length 375;
Best Local Similarity 81.6%; Pred. No. 8.3e-73;
Matches 302; Conservative 0; Mismatches 62; Indels 6; Gaps 1;

QY 24 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 83
DB 12 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 71
QY 84 CTCGTGATTCACTTCACTAGTATGATGACGACGCTGGGCGCCAGGCTCCAGGGAAGG 143
DB 72 GCTGTGATTCACTTCACTAGTATGATGACGACGCTGGGCGCCAGGCTCCAGGGAAGG 131
QY 144 GCTGAGTGGGTCTCATCTATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAG 203
DB 132 GCTGAGTGGGTCTCATCTATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAG 191
QY 204 GAAGGGCGGATTTCACATCTCCAGAGACAGCCCAAGACTCTGTATCTGCAAAATGAA 263
DB 192 GAAGGGCGGATTTCACATCTCCAGAGACAGCCCAAGACTCTGTATCTGCAAAATGAA 251
QY 264 CAGCCTGAGAGCCGAGACAGCGCTGTACTACTGTCCAGAGATTTAGATACAGTAA 323
DB 252 CAGCCTGAGAGCCGAGACAGCGCTGTACTACTGTCCAGAGATTTAGATACAGTAA 305
QY 324 TTTCCTCCGTGGTTCGAGAGCAGGTATGAGCTCTGGGGCCCAAGGAGACACGCTCAT 383
DB 306 TATGTTGGGGAGTTATGAGAGACTACTTGTACTGTGGGCGCCAGGAGACCGCTGTGCAC 365
QY 384 CGTCTCTCA 393
DB 366 CGTCTCTCA 375

RESULT 16

US-09-918-995-16657
;; Sequence 16657, Application US/09918995
;; Publication No. US20030073623A1
;; GENERAL INFORMATION:
;; APPLICANT: Hyseq, Inc.
;; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
;; TITLE OF INVENTION: FROM VARIOUS CDNA LIBRARIES
;; FILE REFERENCE: 20411-756
;; CURRENT APPLICATION NUMBER: US/09/918,995
;; PRIOR FILING DATE: 2001-07-30
;; PRIOR APPLICATION NUMBER: US/09/235,076
;; NUMBER OF SEQ ID NOS: 38054
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 16657
;; LENGTH: 407
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc.feature
;; LOCATION: (1)-(407)
;; OTHER INFORMATION: n = A,T,C or G
US-09-918-995-16657

Query Match 63.1%; Score 248; DB 11; Length 407;
Best Local Similarity 94.5%; Pred. No. 1.6e-72;
Matches 257; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 24 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 83
DB 135 GGTGAGTCTGGGGAGGCGCTGTGTCAGCCTGGGGGGTCCCTGAGACTCTCTGTGCAC 194
QY 84 CTCGTGATTCACTTCACTAGTATGATGACGACGCTGGGCGCCAGGCTCCAGGGAAGG 143
DB 195 CTCGTGATTCTCTCAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 254
QY 144 GCTGAGTGGGTCTCATCTATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAG 203
DB 255 GCTGAGTGGGTCTCATCTATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAG 314
QY 204 GAAGGGCGGATTTCACATCTCCAGAGACAGCCCAAGACTCTGTATCTGCAAAATGAA 263
DB 315 GAAGGGCGGATTTCACATCTCCAGAGACAGCCCAAGACTCTGTATCTGCAAAATGAA 374

Oy	264	CAGCCTGAGAGCCGAGCACACGGCTGTACT	295
Db	375	CAGCCTGAGAGCCGAGGACACGGCTGTATT	406

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RESULT 17
US-10-039-785-65
Sequence 65, Application US/10039785
Publication No. US20020067646A1
GENERAL INFORMATION:
APPLICANT: Salcedo et al.
TITLE OF INVENTION: Antibodies that Immunospecifically Bind to TRAIL
FILE REFERENCE: PEF550
CURRENT APPLICATION NUMBER: US/10/039,785
CURRENT FILING DATE: 2002-05-07
PRIORITY APPLICATION NUMBER: 60/369,860
PRIORITY FILING DATE: 2002-04-05
PRIORITY APPLICATION NUMBER: 60/341,237
PRIORITY FILING DATE: 2001-12-20
PRIORITY APPLICATION NUMBER: 60/331,310
PRIORITY FILING DATE: 2001-11-14
PRIORITY APPLICATION NUMBER: 60/331,044
PRIORITY FILING DATE: 2001-11-07
PRIORITY APPLICATION NUMBER: 60/327,364
PRIORITY FILING DATE: 2001-10-09
PRIORITY APPLICATION NUMBER: 60/333,807
PRIORITY FILING DATE: 2001-09-21
PRIORITY APPLICATION NUMBER: 60/309,176
PRIORITY FILING DATE: 2001-08-02
PRIORITY APPLICATION NUMBER: 60/294,981
PRIORITY FILING DATE: 2001-06-04
PRIORITY APPLICATION NUMBER: 60/293,473
PRIORITY FILING DATE: 2001-05-25
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 65
LENGTH: 747
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: DNA encoding T1006F07 scFv
US-10-039-785-65

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Query Match	63.1%	Score 248;	DB 13;	Length 747;
Best Local Similarity	82.0%	Pred. No. 2e-72;		
Matches 300; Conservative	0;	Mismatches 60;	Indels 6;	Gaps 1

QY	84	CTCTGGATTTACACCTTCAGACAGCTATAGCATGCACTGGGTCTCCGCCAGAGGGTCCAGGAAAGG	14
	72	CTCTGGATTTACACCTTTAGACACTATGACATGACGTGGGTCCGCCAGAGGCTCCAGGAAAGG	13
Db			
QY	144	GCTGGAGTGGGTCTCATCTTATAGTAATAGTAATACTTACATATATCTACGACAGCAGT	20
Db	132	GCTGGAGTGGGTCTCAGCTATTATAGTGGTATGGTGTGTGACACATATACAGACACTCCGT	19
QY	204	GAAGGGCCATTTACCATTCTCCAGAGACACGCCAAGAACTCACTGTATCTGCAAAATGA	26
Db	192	GAAGGGCCCTGTTTACCATTCTCCAGAGACAAATTTCCAAAGAACGGCTGATCTGCAAAATGA	25
QY	264	CAGCCTGAGAGCCGAGACACACGGCTGTACTACTGTCGAGAGATTTCTAGATACAGTAA	32
Db	252	CAGCCTGAGAGCCGAGACACACGGCTGTATTACTGTGCGAGAGAACCATCTTTCAACA	31
QY	324	TTTCCCTCCCTTGGGTGCGAGCGAGATGGACCTCTGGAGGCCAAGGACACACGGTCAT	38
Db	312	GTGGGGCCACT-----ACTCTTAGCGATGATGAGCTCTGGGGCCAGGGGGAACAATGGTAC	36

QY	384	CGTCTC	389
Db	366	CGTCTC	371

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RESULT 18
US-09-964-824A-583
: Sequence 583: Application US/09964824A
: Patent No. US20020102531A1
: GENERAL INFORMATION:
: APPLICANT: Horrigan, Stephen
: TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening using Sign
: TITLE OF INVENTION: Sets
: FILE REFERENCE: 689290-73
: CURRENT APPLICATION NUMBER: US/09/964,824A
: PRIOR FILING DATE: 2001-09-27
: PRIOR APPLICATION NUMBER: US/60/236,033
: PRIOR FILING DATE: 2000-09-28
: PRIOR APPLICATION NUMBER: US/60/236,032
: PRIOR FILING DATE: 2000-09-28
: PRIOR APPLICATION NUMBER: US/60/236,028
: PRIOR FILING DATE: 2000-09-28
: NUMBER OF SEQ ID NOS: 583
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 583
: LENGTH: 527
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-964-824A-583

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Query Match	63.0%	Score 247.6	DB 10	Length 527
Best Local Similarity	77.2%	Pred. No. 2.4e-72		
Matches 301; Conservative	0	Mismatches 89	Indels 0	Gaps 0

QY	64	CTGAGACGCTCCTCGTGTGCACGCTCTGGATTACCTTCAGTACCTATGAGCATGACATGGGTC	122
Db	103	CTGAGACGCTCCTCGTGTGCACGCTCTGGATTACCTTCAGTACCTATGAGCATGACATGGGTC	165
QY	124	CGCGAAGGTCGAGGGAGGGGCGCTGGAGAGGGGCTCATCCATTAGTAATAGTAATATCTTAC	187
Db	163	CGCGAAGGTCGAGGGAGGGGCGCTGGAGAGGGGCTCATCCATTAGTAATAGTAATATCTTAC	222
QY	184	ATTATCTACGCGAGCGCAGTGAAGGGCGGATTCACCATCTCGACGACACGCCAAGAC	244
Db	223	AATACTACGCGAGCGCCTTGAAAGGGCGGATTCACCATCTCGACGACAAATTTCCAGAAC	285
QY	244	TCACGTATCTGCAAATGAACAGCGCTGAGAGCGCGACACAGCGCGTCTACTACTGTGCG	307
Db	283	ACCGTATATCTGCAAATGAACAGCGCTGAGAGCTGAGGACACAGCGCGTCTATTAATCTGTGCG	342
QY	304	ACGAGATTCTAGATTACAGTATATTTCTCCGTTGGGTTCCGACGACGATATGACGTGTGG	363
Db	343	ACGAGGGGCGGGGATTACTGATTTTGTGGATGGTTTATTCGTCGAATGGTTGCAACCCCTGG	407
QY	364	GGCCAAAGGAGCACCGTCACTCGTCTCCCA	393
Db	403	GGCCAAAGGAAACCTGTGCTACCGTCTCCCA	432

RESULT 19
US-09-954-456-1188
Sequence 1188, Application US/09954456
Patent No. US20020115057A1
GENERAL INFORMATION:
APPLICANT: Young, Paul
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using C
TITLE OF INVENTION: Sets
FILE REFERENCE: 689290-76
CURRENT APPLICATION NUMBER: US/09/954,456

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? CURRENT FILING DATE: 2001-09-18
? PRIOR APPLICATION NUMBER: US/60/233,617
? PRIOR FILING DATE: 2000-09-18
? PRIOR APPLICATION NUMBER: US/60/234,052
? PRIOR FILING DATE: 2000-09-20
? PRIOR APPLICATION NUMBER: US/60/234,923
? PRIOR FILING DATE: 2000-09-25
? PRIOR APPLICATION NUMBER: US/60/235,134
? PRIOR FILING DATE: 2000-09-25
? PRIOR APPLICATION NUMBER: US/60/235,637
? PRIOR FILING DATE: 2000-09-26
? PRIOR APPLICATION NUMBER: US/60/235,638
? PRIOR FILING DATE: 2000-09-26
? PRIOR APPLICATION NUMBER: US/60/235,711
? PRIOR FILING DATE: 2000-09-27
? PRIOR APPLICATION NUMBER: US/60/235,720
? PRIOR FILING DATE: 2000-09-27
? PRIOR APPLICATION NUMBER: US/60/235,840
? PRIOR FILING DATE: 2000-09-27
? PRIOR APPLICATION NUMBER: US/60/235,863
? PRIOR FILING DATE: 2000-09-27
? NUMBER OF SEQ. ID NOS: 2276
? SOFTWARE: PatentIn version 3.0
? SEQ. ID NO: 1188
? LENGTH: 527
? TYPE: DNA
? ORGANISM: Homo sapiens
US-09-954-456-1188

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Query March 30:1: 63.0%: Score 247.6: DB 10: Length 527:
Best Local Similarity 77.2%: Pred. No. 2,4e-72:
Matches 301: Conservative 0: Mismatches 89: Indels 0: Gaps 0:

QY 4 GTGCAGCTGCTCGAGTCTGGGGTGGAGTCTGGGGGAGGCGCTGTCAAGCCTGGGGGGTCC 63
Db 43 GTTCAAGTGTACAGTGTGACAGCTGGTGGAGTCTGGGGGAGGCGGTGTCACGCTGGGAGGCTCC 102
QY 64 CTGAGACTCTCTCTGTGAGAGCCTCTGGAATTACCTTCACTAGTACCTTACATGACATGGGTC 123
Db 103 CTGAGACTCTCTCTGTGAGTCTCTGAGACTCACCCTTTAGTACCTTATGGTATGTCATGGGTC 162
QY 124 CGCCAGGCTCCAGGAAAGGGGCTGGAGTGGGCTCTCATTCATTACTAATAGTAACTTAC 183
Db 163 CGCCAGGCTCCAGGAAAGGGGCTGACGTGGGTGGACACTATATCATGTGAGAGTAAT 222
QY 184 ATATACTACGACAGCAGCAGTGAAGGGCGATTCACATCTCCACAGACCAAGCCCAAGAC 243
Db 223 AAATACACGACGAGACTCCTTGAAGGGCGGATTCACATCTCCACAGACCAATTCACAAAC 282
QY 244 TCAGTGTATCTGCAAAATGAAACAGCCTGAGAGCCGAGACACAGCGCTGTACTACTGTGGC 303
Db 283 ACGGTGTATCTGCAAAATGAAACAGCCTGAGATCTGAGACACAGCGCTGTGTATTACTGTGGC 342
QY 304 AGAGTTCTAGATACAGTAATTTCCCTCCGTGGGTGGAGCGAGCGGTATGAGACGCTGG 363
Db 343 AGAGGGGCGGGGATTACTAGTATTTTGGAGTGGTATTATACGTCAACTGTTGACGCCCTGG 402
QY 364 GGCCAGAGGACCAACGGTGTGCTCTCTCA 393
Db 403 GGCCAGAGAACCTGTGCACCGTCTCTCA 432

RESULT 20
US-09-972-656-73
; Sequence 73, Application US/09972656
; Publication No. US20030099647A1
; GENERAL INFORMATION:
; APPLICANT: Deshpande, Rajendra
; APPLICANT: Tsai, Mei-Mei
; TITLE OF INVENTION: Fully Human Antibody Fab Fragments with Human Interferon-Gamma
; TITLE OF INVENTION: Neutralizing Activity
; FILE REFERENCE: A-799
; CURRENT APPLICATION NUMBER: US/09/972.656

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: CURRENT FILING DATE: 2001-10-05
: NUMBER OF SEQ ID NOS: 135
: SOFTWARE: PatentIn version 3.0
: SEQ ID NO 73
: LENGTH: 666
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(666)
US-03-972-656-73

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Query Match	62.7%;	Score 246.4;	DB 11;	Length 666;
Best Local Similarity	92.5%;	Pred. No. 6.5e-72;		
Matches 259;	Conservative 0;	Mismatches 21;	Indels 0;	Gaps 0;

QY	24	GATGAGAGCTGGGGGAGGCGTGGTCAAGCCTGGGGGGTCCGTGAGACTCTCGTGTGACG	83
Db	12	GCTGAGAGTCTGGGGGAGGCGCTGTGCTCAAGCCTGGGGGGTCCGTGAGACTCTCGTGTGACG	71
QY	84	CTCTGGATTACCTTTCAGTAGCTATTAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG	143
Db	72	CTCTGGATTACCTTTCAGTAGCTATTAGCATGCACTGGGTCCGCCAGGGTCCAGGGAAGG	131
QY	144	GCTGAGAGGGCTCATCATTAGTAATAGTAATCTTCAATATTAATAGCGAGCCAGT	203
Db	132	GCTGAGAGGGCTCATCATTAGTAATAGTAATCTTCAATATTAATAGCGAGCCAGT	191
QY	204	GAAGGGCCGATTCCACCATCTCCAGAGACACAACGCCAAGAAGTCACTGTATCTGCAAAATGAA	263
Db	192	GAAGGGCCGATTCCACCATCTCCAGAGACACAATTCGAAGAAACGCTGTATCTGCAAAATGAA	251
QY	264	CAGCCTGAGAGCCGAGACACAGGCTGTGTACTACTGTGG	303
Db	252	TAGCCTGAGAGCCGAGAGACAGGCCATTATATTACTGTGG	291

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Search completed: September 24, 2003, 06:25:28
Job time : 1827 secs

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OM nucleic - nucleic search, using sw model

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Title: US-09-848-798A-97

Perfect score: 393

Sequence: 1 gaggtcagctcgtcagtc.....ccagctcgtctcctca 393

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 33363688 seqs, 1658189874 residues 66727376

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 60 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	363.6	92.5	381	US-09-848-798-96	Sequence 96, Appl
4	363.6	92.5	381	US-09-848-798A-96	Sequence 96, Appl

272.2 69.3 311 36 US-09-864-761-31233 Sequence 31233, A
272.2 69.3 311 48 US-10-203-135-20914 Sequence 20914, A
272.2 69.3 311 48 US-10-203-136-21308 Sequence 21308, A
272.2 69.3 2091 47 US-10-170-235-30772 Sequence 30772, A
272.2 69.3 200000 96 US-60-415-024-32 Sequence 32, Appl
10 271.8 69.2 375 68 US-60-141-701-3 Sequence 3, Appl
11 271.2 69.0 819 1 PCT-US02-18947-198 Sequence 198, Appl
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16 271.2 69.0 819 50 US-10-342-887-198 Sequence 198, Appl
17 271.2 69.0 819 102 US-60-474-850-84 Sequence 84, Appl
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20 270.8 68.9 379 44 US-10-041-860-55 Sequence 55, Appl
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34 269.6 68.6 348 91 US-60-361-783-23 Sequence 23, Appl
35 269.6 68.6 348 91 US-60-361-783-23 Sequence 23, Appl
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ALIGNMENTS

RESULT 1
US-09-848-798-97 Application US/09848798
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/848,798
PRIOR FILING DATE: 2001-05-04
PRIOR APPLICATION NUMBER: EARLIER FILING DATE: 1999-01-29

PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
PRIOR FILING DATE: EARLIER FILING DATE: 1996-10-11
NUMBER OF SEQ ID NOS: 224
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 97
LENGTH: 393
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: anti-Rh(D) chain E03
US-09-848-798-97

Query Match 100.0%; Score 393; DB 35; Length 393;
Best Local Similarity 100.0%; Pred. No. 4.3e-105; Mismatches 0; Gaps 0;
Matches 393; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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361 TGGGGCCAAAGGACGACGACGACGACGACGACGACGACGACGACGACGACGACG 393
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US-09-848-798-97 Application US/09848798
GENERAL INFORMATION:
APPLICANT: Siegel, Donald L.
TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
FILE REFERENCE: 09596-4202
CURRENT APPLICATION NUMBER: US/09/848,798
PRIOR FILING DATE: 2001-05-04
PRIOR APPLICATION NUMBER: 60/028,550
PRIOR FILING DATE: 1996-10-11
NUMBER OF SEQ ID NOS: 224
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 97
LENGTH: 393
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: anti-Rh(D) chain E03
US-09-848-798-97

Query Match 100.0%; Score 393; DB 35; Length 393;
Best Local Similarity 100.0%; Pred. No. 4.3e-105; Mismatches 0; Gaps 0;
Matches 393; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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US-09-848-798-96
; Sequence 96, Application US/09848798
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; FILE REFERENCE: 09596-4202
; CURRENT APPLICATION NUMBER: US/09/848,798
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/240,274
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/028,550
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 96
; LENGTH: 381
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E01
US-09-848-798-96

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Best Local Similarity 98.9%; Pred. No. 2e-96;
Matches 366; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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OY 144 GCTGAGTGGGTCTCATCTTATAGTATAGTATAGTATAGTATAGTATAGTATAGTAT 203
DB 132 GCTGAGTGGGTCTCATCTTATAGTATAGTATAGTATAGTATAGTATAGTATAGTAT 191
OY 204 GAAGGCGGATTCACCATCTCCAGAGACAAGCCCAAGAACTCACTATCTGCAATGAA 263
DB 192 GAAGGCGGATTCACCATCTCCAGAGACAAGCCCAAGAACTCACTATCTGCAATGAA 251

OY 264 CAGCTGAGAGCCGAGACAGCGCTGTACTGTGAGAGATTTAGATACAGTAA 323
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OY 324 TTTCCTCCGTTGGGTTCCGAGCAGCGTATGACGCTGTGGGCCAAGGACACGGTCA 383
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OY 384 CGTCTCTCA 393
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US-09-848-798a-96
; Sequence 96, Application US/09848798A
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: RH(D)-BINDING PROTEINS AND MAGNETICALLY ACTIVATED CELL
; FILE REFERENCE: 09596-4202
; CURRENT APPLICATION NUMBER: US/09/848,798A
; PRIOR FILING DATE: 2001-05-04
; PRIOR APPLICATION NUMBER: 09/240,274
; PRIOR FILING DATE: 1999-05-02
; PRIOR APPLICATION NUMBER: 60/028,550
; PRIOR FILING DATE: 1996-10-11
; NUMBER OF SEQ ID NOS: 224
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 96
; LENGTH: 381
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: anti-Rh(D) chain E01
US-09-848-798a-96

Query Match 92.5%; Score 363.6; DB 35; Length 381;
Best Local Similarity 98.9%; Pred. No. 2e-96;
Matches 366; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGGAGGCTGTCAAGCTGGGGGTCCCTGAGACTCTCTGTGCAAG 83
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DB 252 CAGCTGAGAGCCGAGAGACAGCGCTGTACTGTGAGAGATTTAGATACAGTAA 311
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DB 312 TTTCCTCCGTTGGGTTCCGAGCAGCGTATGACGCTGTGGGCCAAGGACACGGTCA 371
OY 384 CGTCTCTCA 393
DB 372 CGTCTCTCA 381

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US-09-864-761-31233
; Sequence 31233, Application US/09864761


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Qy 264 CAGCCTGAGAGCCGAGACACGCGCTGTACTACTGTGCGAGAGA 308
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RESULT 7
US-10-203-136-21308
; Sequence 21308, Application US/10203136
; GENERAL INFORMATION:
; APPLICANT: Molecular Dynamics, Inc.
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: PB 0004 NO 3
; CURRENT APPLICATION NUMBER: US/10/203,136
; PRIOR FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 04 February 2000 (04.02.00)
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 26 May 2000 (26.05.00)
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 03 August 2000 (03.08.00)
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 03 October 2000 (03.10.00)
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 27 September 2000 (27.09.00)
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 21 September 2000 (21.09.00)
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 30 June 2000 (30.06.00)
; NUMBER OF SEQ ID NOS: 38578
; SOFTWARE: Molecular Dynamics Sequence Listing Engine
; SEQ ID NO 21308
; LENGTH: 311
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AB019439.1
; FEATURE:
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.51
; FEATURE:
; OTHER INFORMATION: EST_HUMAN HIT: AW403220.1, EVALUE 0.00e+00
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; OTHER INFORMATION: NT HIT: L29155.1, EVALUE 0.00e+00
; OTHER INFORMATION: SWISSPROT HIT: P01764, EVALUE 3.00e-43
US-10-203-136-21308

Query Match 69.3%; Score 272.2; DB 48; Length 311;
Best Local Similarity 97.2%; Pred. No. 1.9e-69;
Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

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Db 23 GGTGAGTCTGTGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTGCAGC 82
Qy 84 CTCGTGATTACCTTCAGTACCTATAGCATGATGCTGGTCCGCCAGGGTCCAGGGAAGG 143
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Qy 204 GAAGGGCCGATTACCATCTCTCCAGAGACAAAGCAAGCACTGATCTGCAATGAA 263
Db 203 GAAGGGCCGATTACCATCTCTCCAGAGACAAAGCAAGCACTGATCTGCAATGAA 262
Qy 264 CAGCCTGAGAGCCGAGACACGCGCTGTACTACTGTGCGAGAGA 308
Db 263 CAGCCTGAGAGCCGAGACACGCGCTGTACTACTGTGCGAGAGA 307

RESULT 8
US-10-170-235-30772
; Sequence 30772, Application US/10170235
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig
; TITLE OF INVENTION: KITS, SUCH AS NUCLEIC ACID ARRAYS, COMPRISING A MAJORITY OF HU
; FILE REFERENCE: CL001360
; CURRENT APPLICATION NUMBER: US/10/170,235
; CURRENT FILING DATE: 2003-03-17
; NUMBER OF SEQ ID NOS: 42514
; SEQ ID NO 30772
; LENGTH: 2091
; TYPE: DNA
; ORGANISM: HUMAN
US-10-170-235-30772

Query Match 69.3%; Score 272.2; DB 47; Length 2091;
Best Local Similarity 97.2%; Pred. No. 3.6e-69;
Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 24 GGTGAGTCTGTGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTGCAGC 83
Db 128 GGTGAGTCTGTGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTGCAGC 187
Qy 84 CTCGTGATTACCTTCAGTACCTATAGCATGATGCTGGTCCGCCAGGGTCCAGGGAAGG 143
Db 188 CTCGTGATTACCTTCAGTACCTATAGCATGATGCTGGTCCGCCAGGGTCCAGGGAAGG 247
Qy 144 GCTGAGTGGGTCATCATAGTATAGTATAGTATACATATACATGAGAGGAGT 203
Db 248 GCTGAGTGGGTCATCATAGTATAGTATAGTATACATATACATGAGAGGAGT 307
Qy 204 GAAGGGCCGATTACCATCTCTCCAGAGACAAAGCAAGCACTGATCTGCAATGAA 263
Db 308 GAAGGGCCGATTACCATCTCTCCAGAGACAAAGCAAGCACTGATCTGCAATGAA 367
Qy 264 CAGCCTGAGAGCCGAGACACGCGCTGTACTACTGTGCGAGAGA 308
Db 368 CAGCCTGAGAGCCGAGACACGCGCTGTACTACTGTGCGAGAGA 412

RESULT 9
US-60-415-024-32
; Sequence 32, Application US/60415024
; GENERAL INFORMATION:
; APPLICANT: Jolly, Chris
; TITLE OF INVENTION: Immunoglobulin Compositions and Methods
; FILE REFERENCE: 13311.1001
; CURRENT APPLICATION NUMBER: US/60/415,024
; CURRENT FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 32
; LENGTH: 200000
; TYPE: DNA
; ORGANISM: Human
US-60-415-024-32

Query Match 69.3%; Score 272.2; DB 96; Length 200000;
Best Local Similarity 97.2%; Pred. No. 1.5e-68;
Matches 277; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 24 GGTGAGTCTGTGGGAGGCGCTGTGTCAGCCCTGGGGGTCCTGAGACTCTCTGTGCAGC 83
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Db	197586	GGTGGAGTGTGGGGGAGGCGCTGGTCAACCGCGGGGGCTCTGGAGACTCTCTTCGAGC	197645
Qy	84	CTCTGATTCACCTTCAGTAGCTATATGCAATGCACACGGGTCTCCGACGCTCCAGGAAGGG	143
Db	197646	CTCTGGATTACCTTCAGTAGCTATATGCAATGCAACGTCCGACGCTCCAGGAAGGG	197705
Qy	144	GGTGAAGTGGGTCTCATCATAGTAATAGTAATACTACATATATACGACAGCGAGT	203
Db	197706	GCTGAGTGGGTCTCATCATAGTAATAGTAATAGTAATACTACATATACGACAGCGAGT	197765
Qy	204	GAAGGCGGATTCACATCTCCAGAGACAAGCCACAAGACTCACTGTATCTGCAATGAA	263
Db	197766	GAAGGCGCATTCACATCTCCAGAGACAAGCCACAAGACTCACTGTATCTGCAAAATGAA	197825
Qy	264	CAGCCTGAGAGCGGACACGCGCTGTACTACTGTCGAGAGA	308
Db	197826	CAGCCTGAGAGCGGAGACAAGCGCTGTATTTACTGTGCGAGAGA	197870

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RESULT 10
US-60-141-701-3
? Sequence 3, Application US/60141701
? GENERAL INFORMATION:
? APPLICANT: Watkins, Brynmore
? APPLICANT: Reitz, Jr, Marvin
? TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HIV-1 ENVELOPE
? TITLE OF INVENTION: GLYCOPROTEIN GP120
? FILE REFERENCE: 2026-4284
? CURRENT APPLICATION NUMBER: US/60/141,701
? NUMBER OF SEQ ID NOS: 100
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 3
? LENGTH: 375
? TYPE: DNA
? ORGANISM: Human Immunodeficiency virus type 1
? FEATURE:
? OTHER INFORMATION: VH
? US-60-141-701-3
Query Match 69.2%, Score 271.8, DB 68, Length 375,

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Query Match	Score	271.8	DB	68	Length	375
Best local similarity	86.1%	Pred.	No. 2,7e-69			
Matches	316	Conservative	0	Mismatches	42	Indels
						9
						Gaps
						1
QY	27	GGAGTCCTGGGGAGGCGCTGGTCAAGCCTGGGGGGTCCCTGAGACTCTGCTGTGACAGCC	86			
Db	18	GGAGTCGGGGGAGGCGTTCGTACAGCCTGGGGGGTCCCTGAGACTCTGCTGTGACAGCC	77			
QY	87	TGGATTACCTTTACAGTAGCTATACAGTACGACTGGGTCCGCGAGGTCACAGGAGGGCT	146			
Db	78	TGGATTACCTTTACAGTAGCTATACAGTACGACTGGGTCCGCGAGGTCACAGGAGGGCT	137			
QY	147	GGAGTGGGTCATCCATAGTAATAGTAATACCTACATATATACATACGACAGCCAGTGA	206			
Db	138	GGAGTGGGTCATCCATAGTAATAGTAATACCTACATATATACATACGAGACTCTGTGA	197			
QY	207	GGGCGGATTCACATCTCCAGAGCAACGCCAAGACTCTCTATATCTCAATATGAAC	266			
Db	198	GGGCGGATTCACATCTCCAGAGCAACGCCAAGAACTCTCTATATCTCAATATGAAC	257			
QY	267	CCTGAGAGCCGACACACAGGCGTGTGTACTACTGTCCGAGAGATTCTAGATACAGTAATTT	326			
Db	258	CCTGAGAGCCGACACAGGCGTGTGTAATCTGTGCGAGAGATTATAGTGGTGGCATCTT	317			
QY	327	CCTCCGTTGGGTTGGAGCGACGGTATGACGCTCTGGGGCCAAAGGACACCGCATGCT	386			
Db	318	TGGCATCT-----CCTAACGGTGTGGACGCTCTGGGGCCAAAGGACACCGCATGCT	368			
QY	387	CTTCCTCA	393			
Db	369	CTTCCTCA	375			

RESULT 11
PCT-US02-18947-198
Sequence 198, Application PC/TUS0218947
GENERAL INFORMATION:
APPLICANT: Rosetta Inpharmatics
TITLE OF INVENTION: Diagnosis and Prognosis of Breast Cancer Patients
FILE REFERENCE: 9301-175-228
CURRENT APPLICATION NUMBER: PCT/US02/18947
CURRENT FILING DATE: 2002-06-14
PRIORITY APPLICATION NUMBER: 60/380,770
PRIORITY FILING DATE: 2002-05-14
NUMBER OF SEQ ID NOS: 2699
SEQ ID NO 198
LENGTH: 819
TYPE: DNA
ORGANISM: Homo sapiens
PUBLICATION INFORMATION:
PUBLICATION ACCESSION NUMBER: AJ225092
DATABASE ENTRY DATE: 2001-06-18
PCT-US02-18947-198

[illegible]

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RESULT 12
PCT-US03-02612-6
: Sequence 6, Application PC/TUS0302612
: GENERAL INFORMATION:
:
: APPLICANT: Egea Biosciences, Inc.
:
: APPLICANT: Evans, Glen A.
:
: TITLE OF INVENTION: Methods For Creating Recombination
:
: FILE REFERENCE: EP-EA 5505
:
: CURRENT APPLICATION NUMBER: PCT/US03/02612
:
: CURRENT FILING DATE: 2003-01-29
:
: PRIOR APPLICATION NUMBER: US 10/062,188
:
: PRIOR FILING DATE: 2002-01-30
:
: NUMBER OF SEQ ID NOS: 231
:
: SOFTWARE: FASTSEQ FOR Windows Version 4.0
:
: SEQ ID NO 6
:
: LENGTH: 819
:
: TYPE: DNA

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SEQ ID NO 84
 LENGTH: 819
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-60-474-850-84

Query Match 69.0%; Score 271.2; DB 102; Length 819;
 Best Local Similarity 86.2%; Pred. No. 5.2e-69;
 Matches 319; Conservative 0; Mismatches 33; Indels 18; Gaps 1;

QY 24 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 83
 DB 18 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 77
 QY 84 CTCGAGTTCACCTTACAGTACTATAGCATGACATGAGTGGTCCGCGAGGCTCCAGGAAAGG 143
 DB 78 CTCGAGTTCACCTTACAGTACTATAGCATGACATGAGTGGTCCGCGAGGCTCCAGGAAAGG 137
 QY 144 GCTGAGTGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203
 DB 138 GCTGAGTGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 197
 QY 204 GAAGGCGGATTCACATCTCCAGAGACAGCCAGAACCTCAGTCTGTGCAATGAA 263
 DB 198 GAAGGCGGATTCACATCTCCAGAGACAGCCAGAACCTCAGTCTGTGCAATGAA 257
 QY 264 CAGCTGAGACCCGAGACAGCGCTGTACTACTGTGCGAGAGATTTAGATAGTAA 323
 DB 258 CAGCTGAGACCCGAGACAGCGCTGTACTACTGTGCGAGAGATTTAGATAGTAA 300
 QY 324 TTTCCTCCGTTGGTTCCGAGCGAGTATGAGCTCTGGGGCCCAAGGACCGGTAT 383
 DB 301 -TTCAGTATTCAGATTTTGTGGGGGTATGAGCTCTGGGGCCCAAGGACCGGTAT 359
 QY 384 CGTCTCTCA 393
 DB 360 CGTCTCTCA 369

RESULT 18

PCT-US03-00398-55
 Sequence 55, Application PC/TUS0300398
 GENERAL INFORMATION:
 APPLICANT: ABGENIX, INC.
 APPLICANT: CORVALAN, Jose, R.F.
 APPLICANT: JIA, Xiao-Chi
 APPLICANT: FENG, Xiao
 APPLICANT: YANG, Xiao-Dong
 APPLICANT: CHEN, Francine
 APPLICANT: GAZIT, Gadl
 APPLICANT: WEBER, Richard
 APPLICANT: BEZABEH, Binayam
 TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES THEREOF
 FILE REFERENCE: ABGENIX.051VPC
 CURRENT APPLICATION NUMBER: PCT/US03/00398
 CURRENT FILING DATE: 2003-01-06
 NUMBER OF SEQ ID NOS: 377
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 55
 LENGTH: 379
 TYPE: DNA
 ORGANISM: homo sapiens
 PCT-US03-00398-55

Query Match 68.9%; Score 270.8; DB 1; Length 379;
 Best Local Similarity 85.1%; Pred. No. 5.4e-69;
 Matches 315; Conservative 0; Mismatches 52; Indels 3; Gaps 1;

QY 24 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 83
 DB 12 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 71
 QY 84 CTCGAGTTCACCTTACAGTACTATAGCATGACATGAGTGGTCCGCGAGGCTCCAGGAAAGG 143

DB 72 CTCGAGTTCACCTTACAGTACTATAGCATGACATGAGTGGTCCGCGAGGCTCCAGGAAAGG 131
 QY 144 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 203
 DB 132 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 191
 QY 204 GAAGGCGGATTCACATCTCCAGAGACAGCCAGAACCTCAGTCTGTGCAATGAA 263
 DB 192 GAAGGCGGATTCACATCTCCAGAGACAGCCAGAACCTCAGTCTGTGCAATGAA 251
 QY 264 CAGCTGAGACCCGAGACAGCGCTGTACTACTGTGCGAGAGATTTAGATAGTAA 323
 DB 252 CAGCTGAGACCCGAGACAGCGCTGTACTACTGTGCGAGAGATTTAGATAGTAA 308
 QY 324 TTTCCTCCGTTGGTTCCGAGCGAGTATGAGCTCTGGGGCCCAAGGACCGGTAT 383
 DB 309 GTTGGGGGAATTAATAGGCTCTCTTACTTGTGAGTCTGGGGCCCAAGGAAAGGCTGTCAC 368
 QY 384 CGTCTCTCA 393
 DB 369 CGTCTCTCA 378

RESULT 19

PCT-US03-00398-55
 Sequence 55, Application PC/TUS0300398
 GENERAL INFORMATION:
 APPLICANT: ABGENIX, INC.
 APPLICANT: CORVALAN, Jose, R.F.
 APPLICANT: JIA, Xiao-Chi
 APPLICANT: FENG, Xiao
 APPLICANT: YANG, Xiao-Dong
 APPLICANT: CHEN, Francine
 APPLICANT: GAZIT, Gadl
 APPLICANT: WEBER, Richard
 APPLICANT: BEZABEH, Binayam
 TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFD AND USES THEREOF
 FILE REFERENCE: ABGENIX.051VPC
 CURRENT APPLICATION NUMBER: PCT/US03/00398
 CURRENT FILING DATE: 2003-01-06
 NUMBER OF SEQ ID NOS: 377
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 55
 LENGTH: 379
 TYPE: DNA
 ORGANISM: homo sapiens
 PCT-US03-00398-55

Query Match 68.9%; Score 270.8; DB 2; Length 379;
 Best Local Similarity 85.1%; Pred. No. 5.4e-69;
 Matches 315; Conservative 0; Mismatches 52; Indels 3; Gaps 1;

QY 24 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 83
 DB 12 GGTGAGTCTGGGGGAGGCGCTGTCAGACCTGGGGGGCTCCCTGAGACTCTCTGTGCAGC 71
 QY 84 CTCGAGTTCACCTTACAGTACTATAGCATGACATGAGTGGTCCGCGAGGCTCCAGGAAAGG 143
 DB 72 CTCGAGTTCACCTTACAGTACTATAGCATGACATGAGTGGTCCGCGAGGCTCCAGGAAAGG 131
 QY 144 GCTGAGTGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203
 DB 132 GCTGAGTGGTCTCATCCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 191
 QY 204 GAAGGCGGATTCACATCTCCAGAGACAGCCAGAACCTCAGTCTGTGCAATGAA 263
 DB 192 GAAGGCGGATTCACATCTCCAGAGACAGCCAGAACCTCAGTCTGTGCAATGAA 251
 QY 264 CAGCTGAGACCCGAGACAGCGCTGTACTACTGTGCGAGAGATTTAGATAGTAA 323
 DB 252 CAGCTGAGACCCGAGACAGCGCTGTACTACTGTGCGAGAGATTTAGATAGTAA 308

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us-09-848-798a-97.rnmpm

Page 10

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OY 324 TTTCCTCCGTTGGGTTGGAGCAGCATATGACGTCCTGGGGCCAGGACCAAGGTCTAT 383
    |||
DB 309 GTTTGGGGGAATTTATCGCTGTTCTACTTTGACTACTGGGGCCAGGAAACCTGTCAC 368
OY 384 CGTCTCTCTCA 393
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DB 369 CGTCTCTCTCA 378
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RESULT 20
US-10-041-860-55
; Sequence 55, Application US/10041860
; GENERAL INFORMATION:
; APPLICANT: Corvalan, Jose R.F.
; APPLICANT: Jia, Xiao-Chi
; APPLICANT: Feng, Xiao
; APPLICANT: Yang, Xiao-Dong
; APPLICANT: Chen, Francine
; APPLICANT: Gazit, Gadi
; APPLICANT: Weber, Richard
; APPLICANT: Bezabeh, Binyam
; TITLE OF INVENTION: ANTIBODIES DIRECTED TO PDGFR AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: ARGENTX 051A
; CURRENT APPLICATION NUMBER: US/10/041,860
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 377
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 379
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-041-860-55
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Query Match 68.98; Score 270.8; DB 44; Length 379;
Best Local Similarity 85.18; Pred. No. 5.4e-69;
Matches 315; Conservative 0; Mismatches 52; Indels 3; Gaps 1;
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OY 24 GGTGAGTCTGTGGGGAGGCGTGTCAAGCCTGGGGGTCCTGAGACTCTCTGTGCAGC 83
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DB 12 GGTGAGTCTGTGGGGAGGCGTGTCAAGCCTGGGGGTCCTGAGACTCTCTGTGCAGC 71
OY 84 CTCTGATTCACTTCACTAGTATGATATGATGATGATGATGATGATGATGATGATGATGAT 143
    |||
DB 72 CTCTGATTCACTTCACTAGTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 131
OY 144 GCTGAGTGGTCTCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCAT 203
    |||
DB 132 GCTGAGTGGTCTCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCAT 191
OY 204 GAAGGGCCGATTCCACATCTCCAGAGACAGCCAGAACTCACTGATATGCAATGAA 263
    |||
DB 192 GAAGGGCCGATTCCACATCTCCAGAGACAGCCAGAACTCACTGATATGCAATGAA 251
OY 264 CAGCCTGAGAGCCAGAGACAGCGCTGTCTACTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 323
    |||
DB 252 CAGCCTGAGAGCCAGAGACAGCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 308
OY 324 TTTCCTCCGTTGGGTTGGAGCAGCATATGACGTCCTGGGGCCAGGACCAAGGTCTAT 383
    |||
DB 309 GTTTGGGGGAATTTATCGCTGTTCTACTTTGACTACTGGGGCCAGGAAACCTGTCAC 368
OY 384 CGTCTCTCTCA 393
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DB 369 CGTCTCTCTCA 378
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Listing first 60 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	273.6	69.6	369	1	PCT-US03-21304-3 Sequence 3, Appl1
2	248	63.1	747	1	PCT-US03-25457-65 Sequence 65, Appl1
3	247.6	63.0	741	1	PCT-US03-23826-46 Sequence 46, Appl1
4	244.6	62.2	469219	7	US-60-495-114-16704 Sequence 16704, A
5	239.8	61.0	436	1	PCT-US03-26232-145 Sequence 145, App
6	236.8	60.3	510	6	US-10-469-304-16 Sequence 16, Appl1
7	233.4	59.4	360	1	PCT-US02-34154-19 Sequence 19, Appl1
8	233.4	59.4	360	1	US-10-456-092A-19 Sequence 19, Appl1
9	233.4	59.4	1430	1	PCT-US02-26584-1 Sequence 1, Appl1
10	233.8	59.2	357	6	PCT-US02-34154-20 Sequence 20, Appl1
11	232.8	59.2	357	6	US-10-456-092A-20 Sequence 20, Appl1
12	231.6	58.9	393	1	PCT-US03-15937-52 Sequence 52, Appl1
13	231.2	58.8	867	5	US-09-194-164-16 Sequence 16, Appl1
14	231.2	58.8	867	5	US-09-194-164-13 Sequence 13, Appl1
15	231.2	58.8	918	5	US-09-194-164-15 Sequence 15, Appl1
16	230	58.5	372	6	US-10-031-722A-1 Sequence 1, Appl1
17	229.6	58.4	867	5	US-09-194-164-18 Sequence 18, Appl1
18	227	57.8	360	5	US-09-848-380-121 Sequence 121, App
19	226	57.5	366	6	US-10-031-722A-5 Sequence 5, Appl1
20	225.8	57.5	352	1	PCT-US03-25161-17 Sequence 17, Appl1
21	225.6	57.4	417	6	US-10-656-769-9 Sequence 9, Appl1
22	225.6	57.4	1395	6	US-10-656-769-21 Sequence 21, Appl1
23	225.6	57.4	1398	6	US-10-656-769-23 Sequence 23, Appl1
24	225.6	57.4	1407	6	US-10-656-769-19 Sequence 19, Appl1
25	225.2	57.3	351	1	PCT-US03-21304-4 Sequence 4, Appl1
26	224.4	57.1	908	6	US-10-375-356A-9 Sequence 9, Appl1

27	224	57.0	366	6	US-10-031-722A-9 Sequence 9, Appl1
28	224	57.0	903	6	US-10-375-356A-12 Sequence 12, Appl1
29	224	57.0	913	6	US-10-375-356A-10 Sequence 10, Appl1
30	223.6	56.9	351	1	PCT-US03-21304-5 Sequence 5, Appl1
31	223.6	56.9	351	1	PCT-US03-21304-6 Sequence 6, Appl1
32	222	56.5	351	1	PCT-US03-21304-7 Sequence 7, Appl1
33	220.8	56.2	417	6	US-10-656-769-13 Sequence 13, Appl1
34	220.8	56.2	1395	6	US-10-656-769-27 Sequence 27, Appl1
35	220.8	56.2	1398	6	US-10-656-769-29 Sequence 29, Appl1
36	220.8	56.2	1407	6	US-10-656-769-25 Sequence 25, Appl1
37	220.4	56.1	351	1	PCT-US03-21304-8 Sequence 8, Appl1
38	220.4	56.1	351	1	PCT-US03-21304-9 Sequence 9, Appl1
39	219.4	55.8	1392	6	US-10-645-215-7 Sequence 7, Appl1
40	218.8	55.7	351	1	PCT-US03-21304-10 Sequence 10, Appl1
41	217.2	55.3	369	1	PCT-US03-19333-25 Sequence 25, Appl1
42	214.8	54.7	336	1	PCT-US03-21304-11 Sequence 11, Appl1
43	213.6	54.4	345	1	PCT-US03-21304-15 Sequence 15, Appl1
44	213	54.2	743	5	US-09-538-038A-2352 Sequence 2352, Ap
45	212.4	54.0	892	6	US-10-375-356A-11 Sequence 11, Appl1
46	212	53.9	345	1	PCT-US03-21304-13 Sequence 13, Appl1
47	211.6	53.8	411	1	US-09-538-038A-2350 Sequence 2350, Ap
48	211	53.7	752	5	PCT-US03-30316-1 Sequence 1, Appl1
49	209.6	53.3	363	1	PCT-US03-22566-37 Sequence 37, Appl1
50	209.6	53.3	1493	1	PCT-US03-18934-94 Sequence 94, Appl1
51	208.8	53.1	345	1	PCT-US03-21304-12 Sequence 12, Appl1
52	208.2	53.0	348	1	PCT-US03-10749A-13 Sequence 13, Appl1
53	208.2	53.0	369	1	PCT-US02-30316-1 Sequence 1, Appl1
54	208.2	53.0	1413	1	PCT-US03-10749A-37 Sequence 37, Appl1
55	207.8	52.9	369	1	PCT-US03-19333-27 Sequence 27, Appl1
56	207.2	52.7	358	1	PCT-US03-25161-73 Sequence 73, Appl1
57	206.4	52.5	738	1	PCT-US03-19333-33 Sequence 33, Appl1
58	205.6	52.3	345	1	PCT-US03-21304-14 Sequence 14, Appl1
59	204.8	52.1	432	6	US-10-257-864A-66 Sequence 66, Appl1
60	204.8	52.1	738	1	PCT-US03-19333-30 Sequence 30, Appl1

ALIGNMENTS

RESULT 1
PCT-US03-21304-3
; Sequence 3, Application PC/TUS0321304
; GENERAL INFORMATION:
; APPLICANT: Siegel, Donald L.
; TITLE OF INVENTION: COMPOSITIONS, METHODS AND KITS RELATING TO ANTI-PLATELET
; FILE REFERENCE: 053893-5050WO
; CURRENT APPLICATION NUMBER: PCT/US03/21304
; CURRENT FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: 60/394,356
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: 60/411,694
; PRIOR FILING DATE: 2003-09-18
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 369
; TYPE: DNA
; ORGANISM: Homo sapiens
; PCT-US03-21304-3

Query Match
Best Local Similarity 69.6%; Score 273.6; DB 1; Length 369;
Matches 319; Conservative 0; Mismatches 39; Indels 12; Gaps 1;

QY	24	GGTGGAGCTGGGGGAGGCTGGTCAAGCTGGGGGGTCCCTGAGACTCTCTGTGCAGC	83
DB	12	GGTGGAGCTGGGGGAGGCTGGTCAAGCTGGGGGGTCCCTGAGACTCTCTGTGCAGC	71
QY	84	CTCTGGATTCACTTCACTAGCTATAGCATGACATGCTGGGTCCGCCAGGGTCCAGGAAGG	143
DB	72	CTCTGGATTCACTTCACTAGCTATAGCATGAACTGGGTCCGCCAGGGTCCAGGAAGG	131

NAME/KEY: misc-feature
LOCATION: (1)...(469219)
OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1-
US-60-495-114-16704

Query Match 62.2%; Score 244.6; DB 7; Length 469219;
Best Local Similarity 85.9%; Pred. No. 3.2e-65;
Matches 262; Conservative 7; Mismatches 36; Indels 0; Gaps 0;

OY 4 GTGAGCTGCTCGAGTCTGGGGTGTGAGTCTGGGGAGGCGCTGCTCAACCTGGGGGGTCC 63
DB 100714 GTCCAGTGTCTGAGTCTGAGTCTGAGTCTGAGGAGGCTTGTCAAGCTTGGAGGGTCC 100773
OY 64 CTGAGACTCTCTCTGAGCTGAGCTCTGATTCACCTTACATAGCTATAGCATGCTGGTCC 123
DB 100774 CTGAGACTCTCTCTGAGCTGAGCTCTGATTCACCTTACATAGCTATAGCATGCTGGTCC 100833
OY 124 CCGCAGGCTCCAGGAGGAGGCTGAGTGTGCTGATTCATTCATTAATAGTAATACCTTAC 183
DB 100834 CCGCAGGCTCCAGGAGGAGGCTGAGTGTGCTGATTCATTCATTAATAGTAATACCTTAC 100893
OY 184 ATATCTACGAGACGCGAGTGAAGGCGCATTCACATCTCCAGACAGCGCCAGAAC 243
DB 100894 ATATCTACGAGACGCGAGTGAAGGCGCATTCACATCTCCAGGAGCAAGCGCCAGAAC 100953
OY 244 TCACTGTATCTGCAATGACAGCTGAGAGCCGAGCAGGAGCTGTGTACTACTGTGCG 303
DB 100954 TCACGTATCTGCAATGACAGCTGAGAGCCGAGCAGGAGCAGGAGCTGTGTACTACTGTGCG 101013
OY 304 AGAGA 308
DB 101014 AGAGA 101018

RESULT 5

PCT-US03-26232-145
Sequence 145, Application PC/TUS0326232
GENERAL INFORMATION:
APPLICANT: ABGENIX, INC.
APPLICANT: GUDAS, Jean M.
APPLICANT: HAAK-FRENDSCHO, Mary
APPLICANT: FOOD, Orit
APPLICANT: LIANG, Meina L.
APPLICANT: AHLUMALIA, Kiran
APPLICANT: BHAKTA, Sunil
TITLE OF INVENTION: ANTIBODIES DIRECTED TO MONOCYTE
TITLE OF INVENTION: CHEMO-ATTRACTANT PROTEIN-1 (MCP-1) AND USES THEREOF
FILE REFERENCE: ABGENIX.091VPC
CURRENT APPLICATION NUMBER: PCT/US03/26232
CURRENT FILING DATE: 2003-08-19
PRIOR APPLICATION NUMBER: US 60/404,802
NUMBER OF SEQ ID NOS: 149
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 145
LENGTH: 436
TYPE: DNA
ORGANISM: Homosapien
PCT-US03-26232-145

Query Match 61.0%; Score 239.8; DB 1; Length 436;
Best Local Similarity 81.0%; Pred. No. 1e-64;
Matches 299; Conservative 0; Mismatches 52; Indels 18; Gaps 1;

OY 25 GTGAGTCTGGGGAGGCTGCTCAAGCTTGGGGGCTCCCTGAGACTCTCTGTCTCAGCC 84
DB 1 GAGAGTCTGGGGAGGCTGCTCAAGCTTGGGGGCTCCCTGAGACTCTCTGTCTCAGCC 60
OY 85 TCTGATTCACCTTCAGTATAGCATGACACTGGGCGGAGGAGGAGGAGGAGG 144
DB 61 TCTGATTCACCTTCAGTATAGCATGACACTGGGCGGAGGAGGAGGAGGAGG 120
OY 145 CTGAGTGTGCTCATTCATTAGTAATAGTAATACTTACATATACGAGACGAGTG 204

DB 121 CTGAGTGTGAGGAGGAGTATATATGATGATGAAATAATAATACTATGACAGCTCCG 180
OY 205 AAGGCCATTCACCATCTCCAGAGACAGGCAAGAACTACTCTATCTGAAATGAC 264
DB 181 AAGGCCATTCACCATCTCCAGAGACAGGCAAGAACTACTCTATCTGAAATGAC 240
OY 265 AGCCGAGAGCCGAGACAGGAGCTGTACTGTGAGAGATTTAGATACAGTAAT 324
DB 241 AGCCGAGAGCCGAGAGACAGGAGCTGTACTGTGAGAGATTTAGATACAGTAAT 300
OY 325 TTCTCTCGTGTGGGTTGGAGGAGCGTATGACGCTCTGGGGCCAGGAGCAGGCTCATC 384
DB 301 T-----ACTACGCTATGACGCTCTGGGGCCAGGAGCAGGCTCATC 342
OY 385 GTCTCTCA 393
DB 343 GTCTCTCA 351

RESULT 6

US-10-469-304-16
Sequence 16, Application US/10469304
GENERAL INFORMATION:
APPLICANT: KIRIN BEER KABUSHIKI KAISHA
TITLE OF INVENTION: Anti HLA-DR antibody
FILE REFERENCE: PH-1646-PCT
CURRENT APPLICATION NUMBER: US/10/469,304
CURRENT FILING DATE: 2003-08-29
PRIOR APPLICATION NUMBER: JP2001/317054
NUMBER OF SEQ ID NOS: 147
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 16
LENGTH: 510
TYPE: DNA
ORGANISM: Homo sapiens
US-10-469-304-16

Query Match 60.3%; Score 236.8; DB 6; Length 510;
Best Local Similarity 80.0%; Pred. No. 9.2e-64;
Matches 296; Conservative 0; Mismatches 62; Indels 12; Gaps 1;

OY 24 GGTGAGTCTGGGGAGGAGGCTGCTCAAGCTTGGGGGCTCCCTGAGACTCTCTGTGACG 83
DB 147 GTTGGAGTCTGGGGAGGAGGCTTGTACAGCTTGGGGGCTCCCTGAGACTCTCTGTGACG 206
OY 84 CTCTGATTCACCTTCAGTATAGCATGACACTGGGCTCCGAGGAGGAGGAGG 143
DB 207 CTCTGATTCACCTTCAGTATAGCATGACACTGGGCTCCGAGGAGGAGGAGG 266
OY 144 GCTGAGTGTGCTCATTCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAAT 203
DB 267 GCTGAGTGTGCTCATTCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAAT 326
OY 204 GAAGGCGGATTCACCATCTCCAGAGACAGGCAAGAACTACTCTATCTGCAATGAA 263
DB 327 GAAGGCGGATTCACCATCTCCAGAGACAGGCAAGAACTACTCTATCTGCAATGAA 386
OY 264 CAGCTGAGAGCCGAGACAGGAGCTGTACTACTGTGAGAGATTTAGATACAGTA 323
DB 387 CAGCTGAGAGCCGAGACAGGAGCTGTACTACTGTGAGAGATTTAGATACAGTA 446
OY 324 TTCTCTCGTGTGGGTTGGAGGAGCGTATGACGCTCTGGGGCCAGGAGCAGGCTCAT 383
DB 447 TT-----ATTATCCCTACTGTGTTGACTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 494
OY 384 GCTCTCTCA 393
DB 495 GCTCTCTCA 504

RESULT 7

```

PCT-US02-34154-19
: Sequence 19, Application PC/TUS0234154
: GENERAL INFORMATION:
: APPLICANT: Centocor Inc.
: APPLICANT: Scallion, Bernard J.
: TITLE OF INVENTION: RSV PROTEINS, ANTIBODIES, COMPOSITIONS, METHODS AND USES
: FILE REFERENCE: CEN0203PCT
: CURRENT APPLICATION NUMBER: PCT/US02/34154
: CURRENT FILING DATE: 2003-06-16
: PRIOR APPLICATION NUMBER: 60/336081
: PRIOR FILING DATE: 2001-11-02
: NUMBER OF SEQ. ID NOS: 24
: SOFTWARE: patentln version 3.1
: SEQ. ID NO. 19
: LENGTH: 360
: TYPE: DNA
: ORGANISM: Homo sapiens
PCT-US02-34154-19

```

	Query Match	Similarity	59.4%	Score	23.4	DB	1	Length	360
	Best Local	Similarity	87.6%	Pred.	No.	9.4e-63			
	Matches	Conservative	0	Mismatches	36	Indels	0	Gaps	0
QY	25	GTGGATCTGGGGGAGGCGCTGTGTAAGCTGGGGGGGCGCGAGACATCCCTGTGAGGC	84						
DB	16	GAGGATCTGGGGGAGGCGCTGTGTAAGCTGGGGGGGCGCGAGACATCTGTGTGAGGC	75						
QY	85	TCGGAATTAACCTTAGTAGTACATGCACTGGGGTCCGCCAGGGTCCAGGGAAGGGG	144						
DB	76	TCGGAACCAACCTTAGTAGTACATGCACTGGGGTCCGCCAGGGTCCAGGGAAGGGG	135						
QY	145	CTGGATGGGCTCTCATCAATTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAG	204						
DB	136	CTGGATGGGCTCTCATCAATTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAG	195						
QY	205	AAGGCGCATTCACCATCTCCAGAGACACGCCAAGAACTCAGTGTATCTGCMAATGAAC	264						
DB	196	AAGGCGCATTCACCATCTCCAGAGACACGCCAAGAACTCAGTGTATCTGCMAATGAAC	255						
QY	265	AGCCTGAGAGCCGAGACACAGGCTGTGTACTACTGTGCGAGAGATCTTACA 315							
DB	256	AGCCTGAGAGCCGAGACACAGGCTGTGTACTACTGTGCGAGAGATCTTACA 306							

```

? RESULT 8
? US-10-456-092A-19
? Sequence 19 Application US/10456092A
? GENERAL INFORMATION:
? APPLICANT: Centocor Inc.
? APPLICANT: Scallion, Bernard J.
? TITLE OF INVENTION: RSV PROTEINS, ANTIBODIES, COMPOSITIONS, METHODS AND USES
? FILE REFERENCE: CEN0200USNP
? CURRENT APPLICATION NUMBER: US/10/456,092A
? CURRENT FILING DATE: 2003-06-06
? PRIOR APPLICATION NUMBER: 60/336081
? PRIOR FILING DATE: 2001-11-02
? NUMBER OF SEQ ID NOS: 24
? SOFTWARE: PatentIn version 3.1
? SEQ ID NO 19
? LENGTH: 360
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-10-456-092A-19

```

	59.4%	Score 233.4	DB 6	Length 360
Query Match	87.6%	Pred. NO. 9.4e-63		
Best Local Similarity				
Matches 255	Conservative 0	Mismatches 36	Indels 0	Gaps 0
OY	25	GTGAGACTGGGGGAGGCTTGGTCAAGCTTGGGGGGTCCCTGAGACTCTCTGTGTGACGC	84	
Db	16	GAGGAGTCTGGGGGAGGCTTGGTCAAGCTTGGGGGGTCCCTGAGACTCTCTGTGTGAGGC	75	
Y	85	TCGGAATTCACCTTACGATAGTATAGATGCATCAGGGTCCGACAGGCTCCAGGAGGAGG	144	

Db 76 TCTGGAAACCACTCTAGTGGCTATTACATGCACCTGGGTCCCCAGGCTCCAGGSAAGGG 135

OY 145 CTGGAGTGGGTCTCATCTCATTAGTAAATAGTAATCTTACATATCTACGACGACGAGT 204

Db 136 CTGGAAATGGGTCTCATCTCATTACTGGAAGTGAACAATCTTAACTACTGACTCGT 195

OY 205 AAGGGCGCATTCACATCTCCAGAGACAACGCCAAGACTACTGTATCTGCAATATGAC 264

Db 196 AAGGGCGATTCACATCTCCAGAGACAACGCCAAGACTACTGTATCTGCAATATGAC 255

OY 265 AGCCTAAGAGCCGAGACACACGGCTGTATCTATCTGTGGAGAATTTTACA 315

Db 256 AGCCTAAGAGCCGAGACACACGGCTGTATCTATCTGTGGAGAGCCGCCCTATA 306

```

RESULT 9
PCT-US02-26584-1
: Sequence 1, Application PC/TUS0226584
: GENERAL INFORMATION:
: APPLICANT: HOOPER, Craig
: APPLICANT: DIETZSCHOLD, Bernhard
: TITLE OF INVENTION: Recombinant Antibodies, and Compositions
: TITLE OF INVENTION: and Methods for Making Them
: FILE REFERENCE: 8321-110 PC
: CURRENT APPLICATION NUMBER: PCT/US02/26584
: CURRENT FILING DATE: 2002-08-21
: PRIOR APPLICATION NUMBER: US 60/314,023
: PRIOR FILING DATE: 2001-08-21
: NUMBER OF SEQ ID NOS: 16
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1
: LENGTH: 1430
: TYPE: DNA
: ORGANISM: Homo sapiens
: PCT-US02-26584-1

```

Query Match	59.4%	Score 233.4	DB 1	Length 1430
Best Local Similarity	79.1%	Pred. No. 1,5e-62		
Matches 297	Conservative	0	Mismatches 71	Indels 6
			Gaps	1
QY	24	GGGAGAGTCGGGGGAGGGCCGTCGACCCGAGGGGGGGTCCCTGAGACTCCTGTGAGC	83	
Db	72	GTTGGAGTCGGGGGAGGCGTTGTATACACCTCGGGGGGCTCCGAGACTTCCTGTGAGC	131	
QY	84	CTCTGATTCACCTTCAGCTAGCTATAGATGATGACTGGGTCCGCCAGGTCAGAGGAAGG	143	
Db	132	CTCTGGATTCACCTTTAGACATATAGCCATGAGCTGGGTCCGCCAGGCTCCAGGAAGG	191	
QY	144	GCTGAGTGGGTCTCATCCATTAGTAATAGTAATATCTTACATATACGACAGCGACT	203	
Db	192	GCTGGAGTGGGTCTAGCTATTAGTGCTAGTGAGTGATATGACATATTTGGACAGCTCCG	251	
QY	204	GAAGGGCGATTCACCATCTCCAGGACACAGCCCAAGACTCACTGTATCTGCAAAATGAA	263	
Db	252	GAAGGGCGCGTTACCATCTCCAGGAAATTTCCAAAGAACCGGTGATCTGGCAAAATGAA	311	
QY	264	CAGCCTGAGAGCCGAGACACAGCGCTGTACTGTGTCGAGAGATTTCTAGATACAGTA	323	
Db	312	CAGCCTGAGAGCCGAGAGACAGCGCGTATATTTACTGTGCGAAATATGAGAGGTTCTAT	371	
QY	324	TTTCCCTCCCTTGGGTGGAGAGAGCATATGAGCTGTGGGGGCCAAGGACCAAGGTCAT	383	
Db	372	GATAGT-----TGTACTTAATGAGAGCTTTGACTACTGTGGGGCCAGGGAACCGGGTCA	425	
QY	384	CGTCTCTTC 392		
Db	426	CGTCTCTTC 434		

RESULT 10
PCT-US02-34154-20
; Sequence 20, Application PC/TUS0234154

CORRESPONDENCE ADDRESS:
ADDRESSEE: Morrison & Foerster
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/194,164
APPLICATION DATE: 09-Apr-1999
CLASSIFICATION DATA: <unknown>
PRIORITY APPLICATION NUMBER: US/08/657,449
FILING DATE: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lehnhardt, Susan K.
REGISTRATION NUMBER: 33,943
REFERENCE/DOCKET NUMBER: 31608-20001.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 867 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

FEATURE:
NAME/KEY: CDS
LOCATION: join(1..855, 862..867)
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-194-164-16

Query Match 58.8%; Score 231.2; DB 5; Length 867;
Best local similarity 78.6%; Pred. No. 6,1e-62;
Matches 291; Conservative 0; Mismatches 73; Indels 6; Gaps 1;

24 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 83
|||||
438 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 497
|||||
84 CTCTGATTACCTTCACTAGCTATAGCATGACCTGGGTCGCGAGGCTCCAGGAGGG 143
|||||
498 CTCTGATTACCTTCACTAGCTATAGCATGACCTGGGTCGCGAGGCTCCAGGAGGG 557
|||||
144 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 203
|||||
558 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 617
|||||
204 GAAGGGCCGATTACCATCTCCAGAGACAGCCCAAGCAACTGACTGTCTGCAAAATGAA 263
|||||
618 GAAGGGCCGATTACCATCTCCAGAGACAGCCCAAGCAACTGACTGTCTGCAAAATGAA 677
|||||
264 CAGCCTGAGAGCGGACGACAGCGCTGTGACTAGCTGTGCGAGAGATTCTAGATTACAGTAA 323
|||||
678 CAGCCTGAGAGCGGACGACAGCGCTGTGACTAGCTGTGCGAGAGATTCTAGATTACAGTAA 731
|||||
324 TTTCCTCCGTTGGGTTGGAGGAGCGATGATGACGCTGGGGCCAAAGGAGGAGCGTCA 383
|||||
732 GTTGGGTGACTAAGACCACTACTAGCGTTGGAGCGTGGGGCAAAAGGAGGAGCGTCA 791
|||||
384 CGTCTCTCA 393
|||||
792 CGTCTCTCA 801
|||||

US-09-194-164-13
Sequence 13, Application US/09194164
GENERAL INFORMATION:
APPLICANT: Michael D.
Kaplun, Howard A.
TITLE OF INVENTION: ANTIGEN BINDING FRAGMENTS THAT SPECIFICALLY DETECT CANCER CELLS, NUCLEOTIDES ENCODING T FRAGMENTS, AND USE THEREOF FOR THE PROPHYLAXIS AND DETECTION OF CANCERS

NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morrison & Foerster
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION NUMBER: US/09/194,164
APPLICATION DATE: 09-Apr-1999
CLASSIFICATION DATA: <unknown>
PRIORITY APPLICATION NUMBER: US/08/657,449
FILING DATE: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Lehnhardt, Susan K.
REGISTRATION NUMBER: 33,943
REFERENCE/DOCKET NUMBER: 31608-20001.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 813-5600
TELEFAX: (415) 494-0792
TELEX: 706141

INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 918 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

FEATURE:
NAME/KEY: CDS
LOCATION: join(1..906, 913..918)
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-194-164-13

Query Match 58.8%; Score 231.2; DB 5; Length 918;
Best local similarity 78.6%; Pred. No. 6,2e-62;
Matches 291; Conservative 0; Mismatches 73; Indels 6; Gaps 1;

24 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 83
|||||
489 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 548
|||||
84 CTCTGATTACCTTCACTAGCTATAGCATGACCTGGGTCGCGAGGCTCCAGGAGGG 143
|||||
549 CTCTGATTACCTTCACTAGCTATAGCATGACCTGGGTCGCGAGGCTCCAGGAGGG 608
|||||
144 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 203
|||||
609 GGTGAGTCTGGGGAGGCTGTGTCAGCCCTGGGGGGTCCCTGAGACTCTCTGTGACG 668
|||||
204 GAAGGGCCGATTACCATCTCCAGAGACAGCCCAAGCAACTGACTGTCTGCAAAATGAA 263
|||||
669 GAAGGGCCGATTACCATCTCCAGAGACAGCCCAAGCAACTGACTGTCTGCAAAATGAA 728
|||||
264 CAGCCTGAGAGCGGACGACAGCGCTGTGACTAGCTGTGCGAGAGATTCTAGATTACAGTAA 323
|||||
729 CAGCCTGAGAGCGGACGACAGCGCTGTGACTAGCTGTGCGAGAGATTCTAGATTACAGTAA 782
|||||

QY 324 TTTCCTCCGTTGGGTTTCGAGCGATATGAGCTCTGGGGCCAGGGACACGGTCAT 383
DB 783 GTTGGGTGATATAGCCACTACTAGCTTTGGAGCTCTGGGGCAAGGACACGGTCAC 842
QY 384 CGTCTCTCA 393
DB 843 CGTCTCTCA 852

RESULT 15

US-09-194-164-15/c
Sequence 15, Application US/09194164
GENERAL INFORMATION:

APPLICANT: Dan, Michael D.
Maitl, Pradip K.

Kaplan, Howard A.

TITLE OF INVENTION: ANTIGEN BINDING FRAGMENTS THAT
SPECIFICALLY DETECT CANCER CELLS, NUCLEOTIDES ENCODING THE
FRAGMENTS, AND USE THEREOF FOR THE PROPHYLAXIS AND
DETECTION OF CANCERS

NUMBER OF SEQUENCES: 18

CORRESPONDENCE ADDRESS:

ADDRESS: Morriston & Foerster
STREET: 755 Page Mill Road
CITY: Palo Alto

STATE: CA

COUNTRY: USA

ZIP: 94304-1018

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/657,449

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: Lehnhardt, Susan K.

REGISTRATION NUMBER: 33,943

REFERENCE/DOCKET NUMBER: 31608-20001.00

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 813-5600

TELEFAX: (415) 494-0792

TELEX: 706141

SEQUENCE CHARACTERISTICS:

LENGTH: 918 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-09-194-164-15

Query Match

Best Local Similarity 58.8%; Score 231.2; DB 5; Length 918;

Matches 291; Conservative 0; Mismatches 73; Indels 6; Gaps 1;

QY 24 GGTGAGTCTGGGGAGGCGCTGTCAGCCTTGGGGGCTCCGAGACCTCTCTGTGCAC 83

DB 430 GGTGAGTCTGGGGAGGCGCTGTCAGCCTTGGGGGCTCCGAGACCTCTCTGTGCAC 371

QY 84 CTCGTGATTCACCTTCAGTATAGCATGATGATGATGATGATGATGATGATGATGAT 143

DB 370 CTCGTGATTCACCTTCAGTATAGCATGATGATGATGATGATGATGATGATGATGAT 311

QY 144 GCTGAGTGGTCTCATCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203

DB 310 GCTGAGTGGTCTCATCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 251

QY 204 GAAGGGCCGATTACCATCTCCAGAGACCAAGCAAGCACTACTATCTGCAATGAA 263
DB 250 GAAGGGCCGATTACCATCTCCAGAGACCAAGCAAGCACTACTATCTGCAATGAA 191
QY 264 CAGCTGAGAGCCGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACGTA 323
DB 190 CAGCTGAGAGCCGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACGTA 137
QY 324 TTTCCTCCGTTGGGTTTCGAGCGATATGAGCTCTGGGGCCAGGGACACGGTCAT 383
DB 136 GTTGGGTGATATAGCCACTACTAGCTTTGGAGCTCTGGGGCAAGGACACGGTCAC 77
QY 384 CGTCTCTCA 393
DB 76 CGTCTCTCA 67

RESULT 16

US-10-031-722A-1
Sequence 1, Application US/10031722A
GENERAL INFORMATION:

APPLICANT: Medarex, Inc.

TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HER2/NEU.

FILE REFERENCE: MXI-160PC

CURRENT APPLICATION NUMBER: US/10/031,722A

PRIOR FILING DATE: 2000-07-25

PRIOR APPLICATION NUMBER: USSN 60/146,313

PRIOR FILING DATE: 1999-07-29

PRIOR APPLICATION NUMBER: USSN 60/188,539

NUMBER OF SEQ ID NOS: 13

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO: 1

LENGTH: 372

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(372)

US-10-031-722A-1

Query Match

Best Local Similarity 58.5%; Score 230; DB 6; Length 372;

Matches 291; Conservative 0; Mismatches 70; Indels 9; Gaps 1;

QY 24 GGTGAGTCTGGGGAGGCGCTGTCAGCCTTGGGGGCTCCGAGACCTCTCTGTGCAC 83

DB 12 GTTGGAGTCTGGGGAGGCGCTGTCAGCCTTGGGGGCTCCGAGACCTCTCTGTGCAC 71

QY 84 CTCGTGATTCACCTTCAGTATAGCATGATGATGATGATGATGATGATGATGATGAT 143

DB 72 CTCGTGATTCACCTTCAGTATAGCATGATGATGATGATGATGATGATGATGATGAT 131

QY 144 GCTGAGTGGTCTCATCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 203

DB 132 GCTGAGTGGTCTCATCATTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA 191

QY 204 GAAGGGCCGATTACCATCTCCAGAGACCAAGCAAGCACTACTATCTGCAATGAA 263

DB 192 GAAGGGCCGATTACCATCTCCAGAGACCAAGCAAGCACTACTATCTGCAATGAA 251

QY 264 CAGCTGAGAGCCGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACGTA 323

DB 232 CAGCTGAGAGCCGAGACACGCGTGTACTACTGTGCGAGAGATTCTAGATACGTA 309

QY 324 TTTCCTCCGTTGGGTTTCGAGCGATATGAGCTCTGGGGCCAGGGACACGGTCAT 383

DB 310 -----TCGGGAGATTATATATACCATTTGATGATGATGATGATGATGATGATGAT 362

QY 384 CGTCTCTCA 393

DB 363 CGTCTCTCA 372

OY		324	TTCCTCCGTTGGGTTCGAGCAGCGAGTATGACACTCTGGGGCCAGAGGCCAGTCAAT	383
Db		136	GTTGGAGTGACATTAGACCACCTACCTACGATTGGTGGTGGTGGGGAAGGGCACAGCTCAC	77
OY		384	CGTCTCTCTCA	393
Db		76	CGTCTCTCTCA	67
 RESULT 18 US-09-849-390-121 ; Sequence 121, Application US/09849390 ; GENERAL INFORMATION: ; APPLICANT: Northwestern University ; APPLICANT: ROWLEY, Anne ; APPLICANT: BOWLEY, Susan ; APPLICANT: SHUDMAN, Stanford ; TITLE OF INVENTION: Methods and Compositions Related to Kawasaki Disease ; FILE REFERENCE: 0240 Patent (053662-5005-01) ; CURRENT APPLICATION NUMBER: US/09/849,390 ; CURRENT FILING DATE: 2001-05-24 ; PRIOR APPLICATION NUMBER: US 60/201,861 ; PRIOR FILING DATE: 2000-05-04 ; NUMBER OF SEQ ID NOS: 121 ; SOFTWARE: BLASTentln version 3.0 ; SEQ ID NO: 121 ; LENGTH: 360 ; TYPE: DNA ; ORGANISM: Homo sapiens US-09-849-390-121				
 Query Match 57.8%; Score 227; DB 5; Length 360; Blast local Similarity 87.6%; Pred. No. 9, 2e-61; Matches 248; Conservative 0; Mismatches 35; Indels 0; Gaps 0				
OY		24	GGTGGAGTCTGGGGGAGGCCTGTGTCAAGCCTGGGGGGTCCCTTAGACTCTCTCGTGTGACG	83
Db		12	GGTGGAGTCTGGGGGGGCTTGTGTCAAGCCTGGAGGGTCCCTTAGACTCTCTCGTGTGACG	71
OY		84	CTCTGGATTACCTTCAGTACGTATAGCATGACATGCACACTGGGTCCGCGAGGGTCCAGGAAAGG	143
Db		72	CTCTGGATTACCTTCAGTACGTACGTATAGCATGATGATGTTGGTTCGCGCAGGCTCCAGGAAAGG	131
OY		144	GCTGAGATGGGTCTCATCTCACTTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTAATAGTA	203
Db		132	ACTGGAGTGGCTTCAT	191
OY		204	GAAAGGCGCATTCACCATCTCCAGAGACAAAGCCCAAGAACCTCACTGATCTGCAAAATGAA	263
Db		192	GAAAGGCGCATTCACCATCTCCAGAGACAAAGCCCAAGAACCTCACTGATCTGCAAAATGAG	251
OY		264	CAGCCTGAGAGCGGACACAGAGCGGTGTACTACTGTCGCGAGA	306
Db		252	CAGCCTGAGAGCGGAGACACAGCGGTGTATTAATGTCGCGAGA	294
 RESULT 19 US-10-031-722A-5 ; Sequence 5, Application US/10031722A ; GENERAL INFORMATION: ; APPLICANT: Mediatex, Inc. ; TITLE OF INVENTION: HUMAN MONOCLONAL ANTIBODIES TO HBR2/NEU ; FILE REFERENCE: MXL-1690C ; CURRENT APPLICATION NUMBER: US/10/031,722A ; PRIOR FILING DATE: 2000-07-25 ; PRIOR APPLICATION NUMBER: USSN 60/146,313 ; PRIOR FILING DATE: 1998-07-29 ; PRIOR APPLICATION NUMBER: USSN 60/188,539 ; PRIOR FILING DATE: 1998-03-10 ; NUMBER OF SEQ ID NOS: 13 ; SOFTWARE: BLASTentln Ver. 2.0 ; SEQ ID NO: 5				

LENGTH: 366
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(366)
US-10-031-722a-5

Query Match 57.5%; Score 226; DB 6; Length 366;
Best Local Similarity 78.4%; Pred. No. 1.9e-60;
Matches 290; Conservative 0; Mismatches 65; Indels 15; Gaps 1;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCAGACCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 83
DB 12 GGTGAGTCTGGGGAGGCGCTGTCAGACCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 71
OY 84 CTCGTGATTCACCTTCACTATGATGATGATGATGATGATGATGATGATGATGATGAT 143
DB 72 GTCGTGATTCACCTTCACTATGATGATGATGATGATGATGATGATGATGATGATGAT 131
OY 144 GCTGAGTGGGTCTCATCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 203
DB 132 GCTGAGTGGGTCTCATCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 191
OY 204 GAAGGCCGATTCACCATCTCCAGACACGCCAAGACATCATGATGATGATGATGATGAT 263
DB 192 GAAGGCCGATTCACCATCTCCAGACATTCACAGAACACGCTGATGATGATGATGATGAT 251
OY 264 CAGCTGAGACCGGACGACGAGGCTGATGATGATGATGATGATGATGATGATGATGAT 323
DB 252 CAGCTGAGACCGGACGAGGCTGATGATGATGATGATGATGATGATGATGATGATGAT 311
OY 324 TTTCTCGCTGGGTTCGAGGACGATGATGATGATGATGATGATGATGATGATGATGAT 383
DB 312 TT-----ATTTAACTACTTGTGAGGCGCAGGGAACCTGTGTAC 356
OY 384 GGTCTCTCA 393
DB 357 GGTCTCTCA 366

RESULT 20
PCT-US03-25161-17
Sequence 17, Application PC/TUS0325161
GENERAL INFORMATION:
APPLICANT: Abgenix, Inc.
APPLICANT: Roskos, Lorin
APPLICANT: Foltz, Ian
TITLE OF INVENTION: ANTIBODIES DIRECTED TO PARATHYROID
FILE REFERENCE: ABGENIX.092VPC
CURRENT APPLICATION NUMBER: PCT/US03/25161
NUMBER OF SEQ ID NOS: 97
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 17
LENGTH: 352
TYPE: DNA
ORGANISM: Homosapien
PCT-US03-25161-17

Query Match 57.5%; Score 225.8; DB 1; Length 352;
Best Local Similarity 87.0%; Pred. No. 2.2e-60;
Matches 248; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

OY 24 GGTGAGTCTGGGGAGGCGCTGTCAGACCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 83
DB 12 GGTGAGTCTGGGGAGGCGCTGTCAGACCTGGGGGCTCCCTGAGACTCTCTGTGCAGC 71
OY 84 CTCGTGATTCACCTTCACTATGATGATGATGATGATGATGATGATGATGATGATGAT 143
DB 72 CTCGTGATTCACCTTCACTATGATGATGATGATGATGATGATGATGATGATGATGAT 131

OY 144 GCTGAGTGGGTCTCATCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 203
DB 132 GCTGAGTGGGTCTCATCTTATGATGATGATGATGATGATGATGATGATGATGATGAT 191
OY 204 GAAGGCCGATTCACCATCTCCAGACACGCCAAGACATCATGATGATGATGATGATGAT 263
DB 192 GAAGGCCGATTCACCATCTCCAGACATTCACAGAACACGCTGATGATGATGATGATGAT 251
OY 264 CAGCTGAGACCGGACGACGAGGCTGATGATGATGATGATGATGATGATGATGATGAT 308
DB 252 CAGCTGAGACCGGACGACGAGGCTGATGATGATGATGATGATGATGATGATGATGAT 296

Search completed: September 24, 2003, 05:54:52
Job time : 866 secs

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